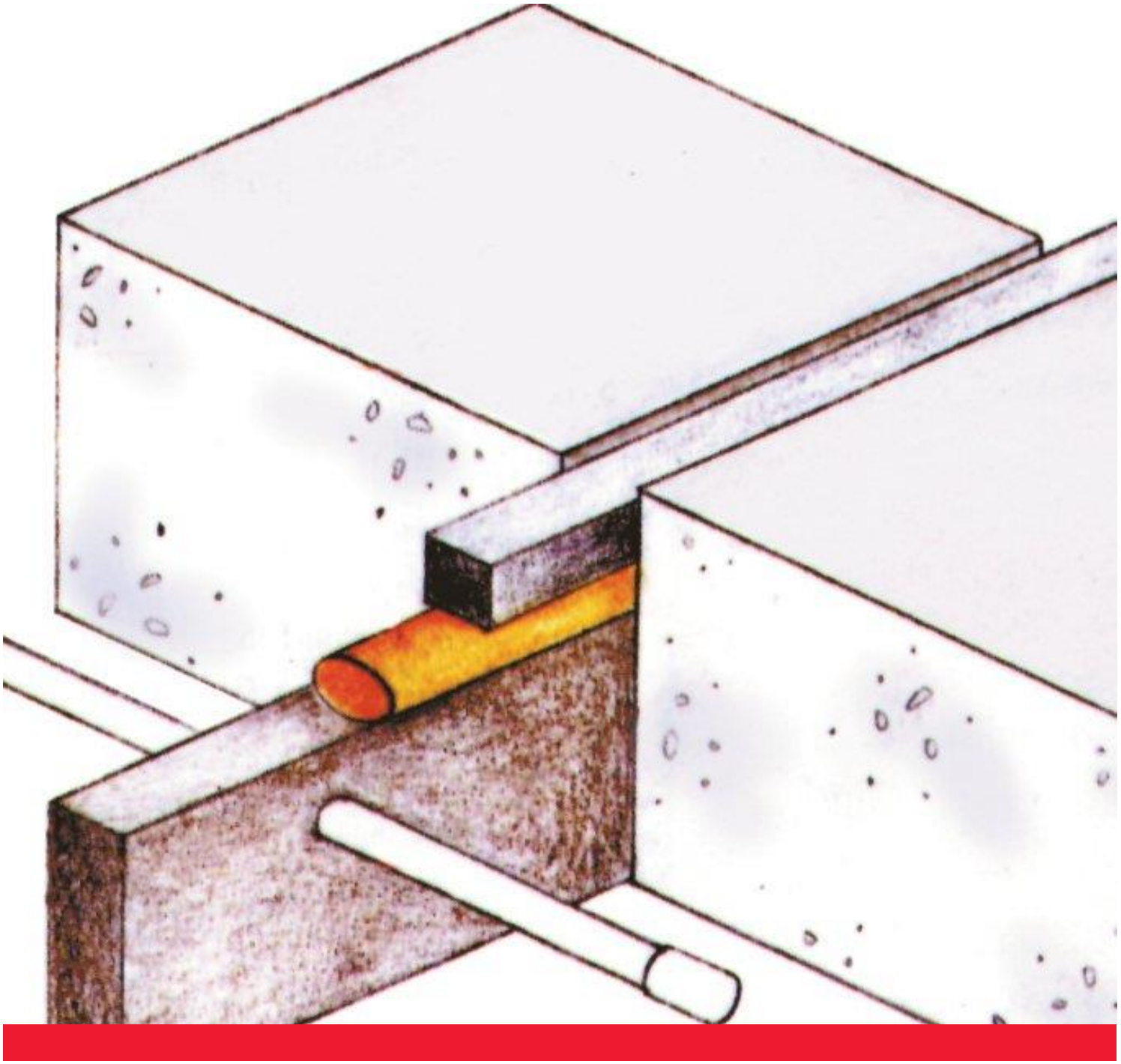

Product Pack for
Fosroc® Colpor 200PF
High Performance, Pavement Joint Sealant System

FOSROC

constructive solutions

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INDEX

PRODUCT INTRODUCTION

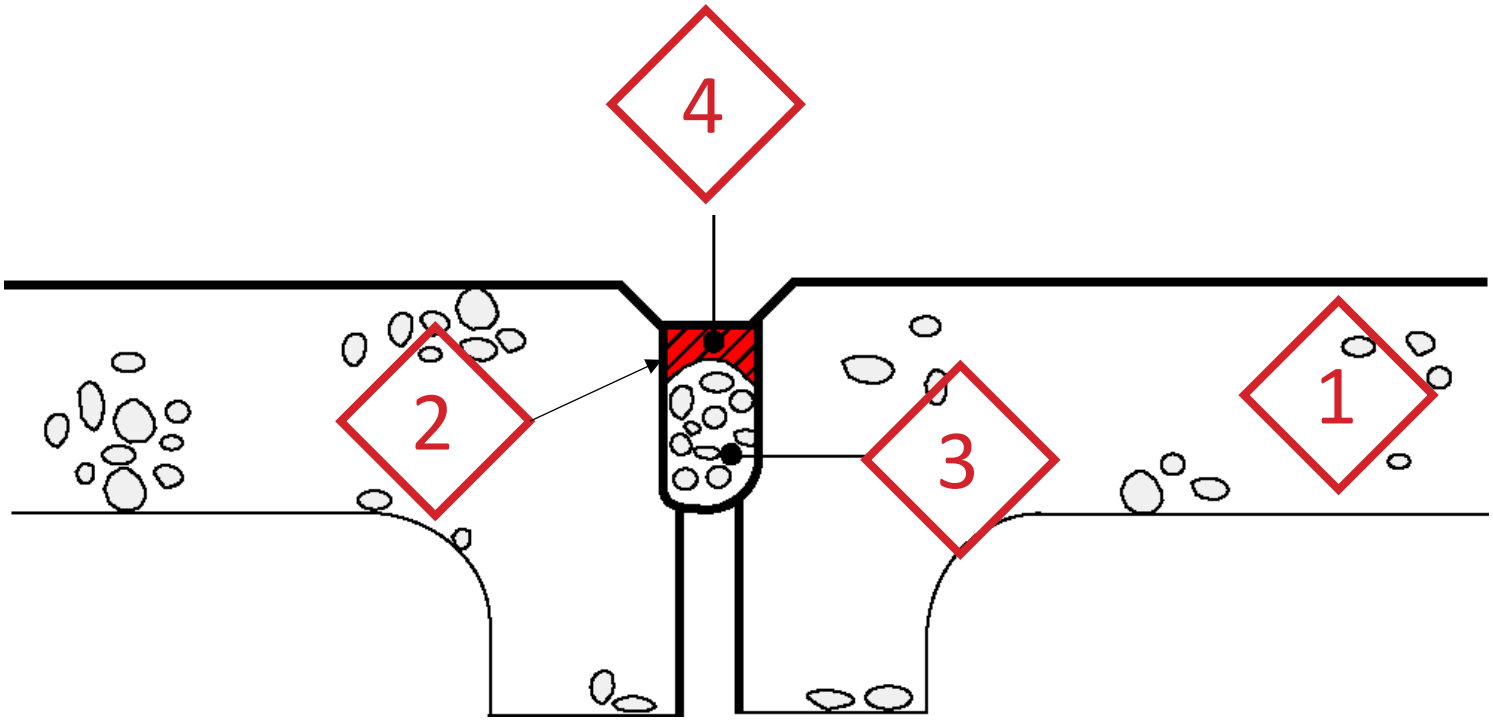
Colpor 200PF
Fosroc Primer 20
Expandafoam
Hydrocell XL

Product Information

Product Name.	**Colpor 200PF**.	**Fosroc Primer 20**
Description.	Cold applied, high performance, pavement joint sealant conforming to the requirements of BS EN 14188-2:2004 and BS5212 Part1:1990	Chemically active, non-toxic liquid for brush application to prime porous surfaces.
Photo.		
Colour.	Black	Clear
Packaging:.	2 x 5 litre units	0.5 litre packs 5 litre packs

Expandafoam	Hydrocell XL
Closed-cell polyethylene joint filler, back-up strips and cord	Cross linked, non-absorbent, closed cell, polyethylene joint filler
	
Grey	Grey
Strip: 15 metres long rolls 10 x 100 mm, 10 x 150 mm, 12 x 100 mm, 20 x 150 mm, 20 x 200 mm **Cord:** 12mm x 750m, 15mm x 550m, 15mm x 100m, 20mm x 350m 20mm x 100m, 25mm x 200m, 30mm x 160m, 40mm x 270m, 50mm x 180m	10 mm x 1000 mm x 2000 mm 15 mm x 1000 mm x 2000 mm 20 mm x 1000 mm x 2000 mm 25 mm x 1000 mm x 2000 mm

System & Application Area

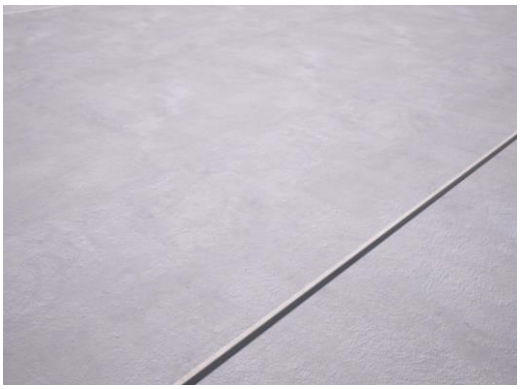


1 Concrete

2 Primer 20

3 Expandafoam Cord / Hydrocell XL

4 Colpor 200PF



External Concrete Pavement

Product Advantages

For the sealing and maintenance of joints in concrete roads, concrete runways, and hard standings. Colpor 200PF is particularly suitable for sealing areas where fuel and oil spillage might occur such as aircraft hardstanding areas, oil terminals, garage forecourts, parking and cargo bays.

Abrasion resistant

High durability and long service life

High movement accommodation

Fuel, oil and hydraulic fluid resistance

Jet blast resistant

Cold applied — no heating equipment required

Standard Compliance

Colpor 200PF complies with the following standards

ISO Standard

BS EN 14188-2:2004. Joint fillers and sealants. Specifications for cold applied sealants: Two component (M)

/ self-levelling (sl type)/ Class B, C and D.

British Standard 5212 : Part 1: 1990 Cold applied joint sealant systems for concrete pavements. Specification for joint sealants— types N, F and FB.

U.S. Federal Specification SS-S-200E : 1993.Sealants joint, two component, jet blast resistant, cold applied for Portland cement concrete pavement.

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PRODUCT DATA SHEETS

Fosroc® Colpor 200PF

constructive solutions

Cold applied, high performance, pavement joint sealant conforming to the requirements of BS EN 14188-2:2004 and BS5212 Part1:1990

Uses

For the sealing and maintenance of joints in concrete roads, concrete runways, and hard standings. Colpor 200PF is particularly suitable for sealing areas where fuel and oil spillage might occur such as aircraft hardstanding areas, oil terminals, garage forecourts, parking and cargo bays.

Advantages

- High durability and long service life
- High movement accommodation
- Cold applied — no heating equipment required
- Fuel, oil and hydraulic fluid resistance
- Jet blast resistant

Description

Colpor 200PF is a two-component cold applied pouring grade sealant for pavement joints. It is flow applied into the joint either directly from the can or using a Fosroc G Gun.

Colpor 200PF retains its movement accommodation of 25% on butt joints throughout the extremes of temperature, it does not harden in cold weather nor become excessively soft or pick up in hot conditions.

Colpor 200PF is resistant to jet blast and is suitable for concrete runways and hardstandings.

Colpor 200PF is suitable for areas where fuel spillage is likely.

In trafficked areas the maximum expansion joint width should not exceed 30 mm, wider joints are likely to suffer mechanical damage. It is necessary to recess the level of the sealant 5 to 8 mm below the pavement surface, the depth is dependent on the season and temperature at the time of sealing. Additional protection for the joint arris can be provided by chamfering the top edge.

The width/depth ratio of the Colpor 200PF seal should be 1 : 1 to 1½ : 1 subject to a minimum 10 mm depth of sealant (example, contraction joint: 15 mm wide x 13 mm depth; expansion joint: 25 mm wide x 20 mm depth).

Standards compliance

BS EN 14188-2:2004. Joint fillers and sealants. Specifications for cold applied sealants: Two component (M) / self-levelling (sl type)/ Class B, C and D.

British Standard 5212 : Part 1: 1990 Cold applied joint sealant systems for concrete pavements. Specification for joint sealants— types N, F and FB.

U.S. Federal Specification SS-S-200E : 1993.Sealants joint, two component, jet blast resistant, cold applied for Portland cement concrete pavement.

CE 11	UKCA 22
DOP: UK9-53	
Fosroc International Limited **Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3XN, UK**	
Colpor 200PF	
EN 14188-2: Joint sealants for concrete pavements - cold applied	
Bonding strength: At 23°C At -20°C	 ≥ 0.15 MPa ≤ 0.6 MPa
Cohesion for cold climate areas @ -30°C	≤ 1.0MPa No adhesive or cohesive failure
Elastic recovery	≥ 70%
Adhesion/cohesion properties after immersion in liquid chemicals	No failure
Change in mass/ volume after immersion in liquid chemicals: Change in mass Change in volume	 ≤ 25% ≤ 30%
Artificial weathering by UV irradiation	≤ 20% change in modulus at 100% extension
Resistance to flame	Pass /fail

Fosroc® Colpor 200PF

Properties

The following results were obtained at a temperature of 20°C unless otherwise stated.

Test method	Standard	EN 14188-2 Requirement	Test result
Bonding Strength	EN 28340	At 23°C ≥ 0.15MPa At -20°C ≤ 0.6MPa	0.36 MPa no failure 0.53 MPa no failure
Cohesion for cold climate	EN 14187-9	@-30°C ≤ 1.0 no failure	0.24 MPa no failure - concrete 0.26 MPa no failure - asphalt
Elastic recovery	EN ISO 7389	≥ 70%	94 %
Adhesion/cohesion properties after immersion in liquid chemicals	EN 14187-6	no failure	Pass Class B, C & D Test Fuel I, Test Fuel II, Jet A1, Glycol, Formate and Acetate based de-icers
Change in mass and volume after immersion in liquid chemicals	EN 14187-4	Change in mass ≤ - 25% by mass ≤ + 30% by volume	Test Fuel II - Complies Urea - Complies NACl/ KCl - Complies Potassium - Complies Acetate - Complies Diesel - Complies
Artificial weathering by UV radiation	EN 14187-8	≤ 20% change in modulus at 100% extension	- 8%
Resistance to flame	EN 14187-7	Pass/Fail	Pass - No flow, cracking, flaking hardening or ignition
Solids content	-	-	100 %
Shore “A” hardness	-	-	15 + / - 5
Movement Accommodation Factor (MAF)	-	-	25%
Colour	-	-	Black
Setting time: Pot life @ 20°C Tack free @ 20°C Full cure @ 20°C Full cure @ 25°C	- - - -	- - - -	60 minutes 16 - 24 hours 7 days 3-4 days
Application temperature	-	-	> 5°C

Clarification of property values: The typical properties given above are derived from laboratory testing. Results derived from field applied samples may vary.

Fosroc® Colpor 200PF

Application instructions

Joint preparation

Joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and free from frost. Remove all dust and loose material by grit blasting or grinding. Avoid polishing the joint sides when grinding. The prepared sealing slot should be blown out with dry, oil-free compressed air. When resealing all traces of previously applied sealant should be removed.

The base of the joint should be tightly packed with a joint backing cord, Expandafoam, which should be placed to ensure the correct joint profile is produced. If the joint is not deep enough to accept Expandafoam a debonding tape should be inserted into the base of the joint. Ensure the correct joint profile is obtained.

Priming - Concrete

Concrete joint faces should be primed with Fosroc Primer 19 or Primer 20.

Fosroc Primer 19
Empty the entire contents of the Fosroc Primer 19 hardener tin into the base tin and replace base tin lid. Mix thoroughly by shaking tin for 2 minutes. Prime the joint face using a clean dry brush. Avoid over application of primer causing puddles in the bottom of the joint. Colpor 200PF should be applied between 30 minutes and 4 hours after priming. If the joint is not sealed overnight the primer film should be removed by grit blasting and the joint reprimed.

The mixed Fosroc Primer 19 should be applied within one working day. Do not split packs of Fosroc Primer 19.

Fosroc Primer 20
Decant sufficient primer into a clean dry tin for the day's usage. Do not return unused primer to the supply tin at the end of the day. Prime the joint faces with a thin uniform coat of primer and allow solvent to evaporate before sealing. This takes between 30 minutes and 2 hours depending on climatic conditions. If sealant is not applied within 2 hours the joint face should be reprimed.

Where concrete joints are exposed or subject to conditions of prevailing damp or where the concrete is unusually dense or porous the use of Fosroc Primer 19 is recommended. Contact the local Fosroc office for further details.

Priming – Asphalt

To the clean, sound asphalt joint face apply Nitoflor FC130 and allow to dry. Then prime both joint faces with Fosroc Primer 19 or 20 as described above and seal the joint as detailed in the mixing and application instructions. If the asphalt is new, has a high or soft bitumen content, undertake local adhesion tests before main sealing works to confirm bond. If the results are satisfactory (cohesive failure within asphalt or sealant) then proceed with joint sealing.

Mixing

Totally drain the contents of the curing agent tin into the large base component tin. Using a hand held, slow speed drill (300 to 500 rpm) fitted with a Fosroc Sealant Mixing Paddle, mix for 1 minute. Stop and scrape around the top of the tin to remove any remaining curing agent. Continue to mix for 3 minutes until the material is thoroughly mixed.

In cold weather, Colpor 200PF mixes more easily if stored overnight at room temperature.

Application

Pour mixed sealant into a Fosroc G Gun after removing the nozzle end cap, pulling back the plunger rod. Replace end nozzle and gun into prepared joint. In joints of 25 mm and above, the mixed sealant may be poured directly from the tin by bending the side to form a pouring lip. Apply mixed sealant so that the finished level of the seal is recessed below the trafficked surface as specified.

Cleaning

Clean equipment immediately after use with Fosroc Equipment Cleaner.

Estimating

Packaging

Colpor 200PF is supplied in cartons containing 2 x 5 litre units, each unit comprising a tin of base and a tin of curing agent.

For machine application Colpor 200PF is available in 20 litre units. Where a faster curing hand or machine applied sealant is required refer to the Thioflex 555 data sheet.

Fosroc Primer 19 is supplied in a 750ml pack

Primer 20 is supplied in 0.5 and 5 litre packs.

Estimating

Colpor 200PF quantities

Joint size in mm	Litre per metre	Metre per 5.0 litre pack
10 x 10	0.100	50.00
13 x 13	0.169	29.58
15 x 15	0.225	22.22
20 x 15	0.300	16.66
20 x 20	0.400	12.50
25 x 20	0.500	10.00
25 x 25	0.625	8.00
30 x 25	0.750	6.66

Fosroc® Colpor 200PF

Primer Quantities

Linear Metres of joint per pack of primer

Joint depth mm	Fosroc Primer 19 750 ml pack	Fosroc Primer 20 0.5 litre pack	5 litre pack
10	600 - 675	300	3000
15	400 - 450	200	2000
20	300 - 340	150	1500
25	240 - 270	120	1200
30	200 - 225	100	1000

Limitations

For the sealing of industrial floor joints, higher modulus sealants such as Nitoseal MS300 or Nitoseal PU800 (see separate data sheets) are recommended.

Colpor 200PF should not be used in direct contact with materials containing pitch or bitumen. See Priming – Asphalt for more detailed advice.

Service life may not exceed 3 years in hot climates, especially those with high humidity.

Do not apply when substrate temperature is 5°C and falling.

Storage

Store Colpor 200PF in original containers in cool, dry conditions i.e. not exceeding 25°C. Storage life in these conditions is 12 months. Storage above this temperature may reduce storage life.

Precautions

Health and safety

For further information refer to appropriate Product Safety Sheets. Available at www.fosroc.com.

Fire

Colpor 200PF is non-flammable.

Fosroc Primer 19, Fosroc Primer 20 and Fosroc Equipment Cleaner are flammable. Keep away from sources of ignition. No smoking. In the event of fire extinguish with CO_2 or foam. Do not use water jet.

Flash points

Fosroc Primer 19 Part A	36°C
Fosroc Primer 19 Part B	29°C
Fosroc Primer 20	30°C
Fosroc Equipment Cleaner	44°C

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ISO 45001 Occupational Health and Safety CERTIFIED OHS 740931
ISO 9001 Quality Management Systems CERTIFIED FM 610
ISO 14001 Environmental Management CERTIFIED EMS 61113

June 2024

Fosroc® Expandafoam

constructive solutions

Closed-cell polyethylene joint filler, back-up strips and cord

Uses

Expandafoam is a closed-cell polyethylene joint filler for use as an expansion joint filler in brick and blockwork, isolation joints and hinge joints where a readily compressible low load transfer joint filler is required.

Strip and cord sections are also available. These are used as back-up strips for elastomeric sealants.

- Back-up / bond breaker strip to support sealants
- Bridge decks, abutments, pier hinge joints
- Brick and blockwork in building superstructures

Advantages

- Readily compressible
- Low load transfer
- Excellent recovery after compression
- Non-absorbent
- Rot-proof
- CFC-free

Standards compliance

BS 5628 Part 3 'Use of Masonry' paragraph 20.4.

DTp Specification for Highway Works, December 1991 series 1000. Clause 1015.

Description

Expandafoam is a flexible, readily compressible, closed-cell polyethylene joint filler supplied in sheet form and as rectangular strips or circular section cords.

Properties

Technical data — (sheets and strips)

Form:	Cross-linked, compressible, closed-cell foamed sections and sheet
Weathering test:	No disintegration
Recovery:	Greater than 70%
Water absorption:	Negligible
Effects of fire:	Being a thermoplastic material, Expandafoam will melt. It is combustible but rate of flame spread will be reduced when confined within a joint

Technical data — (cord)

Form:	Compressible closed-cell foam circular cords
Storage life:	Indefinite
Water absorption:	Negligible
Colour:	Grey
Temperature stability:	–40°C to +60°C
Density:	30 +/- 5 kg/m³

Specification clauses

The joint filler / back-up strips as detailed shall be Expandafoam supplied by Fosroc. Whether in sheet form or in strip or cord form, Expandafoam shall be installed strictly in accordance with the relevant Fosroc technical data sheet.

Application instructions

Joint sealing slots

When used as an expansion or isolation joint filler in brickwork, Expandafoam should be positioned to provide for a surface sealing slot of the required dimensions ensuring that the sealing slot is free from mortar droppings or slurry bridging.

Expandafoam sheets may be fixed into position using a suitable adhesive. Care should be taken not to contaminate the surfaces of the sealing slot with adhesive.

Where Expandafoam is used as the joint filler no additional bond breaker is necessary.

Used as a back-up / bond breaker strip Expandafoam serves both to regulate the depth of the sealing slot required and ensures that the movement of the joint sealant is not restricted by three-sided adhesion.

The size of the back-up strip should be approximately 20% greater than the joint width and depressed sufficiently to provide the required sealing slot dimensions. Circular cord sections provide a convex face giving an optimum seal configuration, they also overcome any problem of twisting which can occur with square or rectangular sections.

Fosroc® Expandafoam

Estimating

Sheet size:	1.0 x 2 metres
Sheet thickness:	10, 12, 15, 20 and 25 mm
Strip sizes:	15 metres long
Strip dimensions:	10 x 100 mm 10 x 150 mm 12 x 100 mm 20 x 150 mm 20 x 200 mm

All 10 and 12 mm strips have a 10 mm deep tear-out section and all 20 strips have a 20 mm tear-out section to ensure uniform depth of sealant cover.

Guide to cord quantities

Cord diameter in mm	Linear metres per carton
12	750
15	550, 100†
20	350,100
25	200
30	160
40	270†
50	180

Note: Expandafoam Cord is supplied on a reel (with the exclusion of 40mm and 50mm diameter cord).
Size marked with † supplied to order.

Storage

Store in original unopened packaging, in cool dry conditions, away from sunlight.

Precautions

Health and safety

There are no known health hazards associated with Expandafoam in normal use.

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Certificate number FM 610

Fosroc® Hydrocell XL

constructive solutions

Cross linked, non-absorbent, closed cell, polyethylene joint filler

Uses

Hydrocell XL is a cross linked, non-absorbent, semi-rigid, cellular polyethylene joint filler used for forming expansion joints in concrete, brickwork and blockwork. The product provides excellent support to sealants subject to hydrostatic pressure and is particularly recommended for water retaining or water excluding structures.

- Potable water reservoirs
- Culverts and canals
- Sewage tanks
- Roadways and hardstandings
- Retaining walls
- Basement structures and subways
- Runways, taxiways and aprons

Advantages

- Cross linked to resist lateral and hydrostatic pressure
- High density support of sealant to prevent adhesion failure
- Non-absorbent closed cell structure
- High compression recovery
- Non-extruding
- Low load transfer to joint edges
- Non-tainting and rot proof
- Chemically resistant
- Bitumen free
- Natural bond breaker

Description

Hydrocell XL is a cross linked, semi-rigid, closed cell polyethylene sheet material used for forming or filling expansion joints between adjacent in-situ or precast components. Hydrocell XL provides excellent support backing to elastomeric sealants and is especially recommended for use in expansion joints in brickwork and in the construction of water retaining and water excluding structures.

Standards compliance

DTp Specification for Highway Works, February 2016, Series 1000, Clause 1015.

BS 5628, Part 3: Code of Practice for the Use of Masonry.

The compressive strength of Hydrocell XL prevents the transfer of load across movement joints.

Each cell is cross linked thereby preventing breakdown under hydrostatic pressure. The closed cell formation prevents the absorption of water.

Specification clauses

The joint filler shall be cross linked, non-absorbent, semi-rigid, cellular polyethylene. It shall have a recovery of 98% after 50% compression and a compressive strength of 0.15 N/mm² when tested in accordance with ASTM D3575. It shall have a water absorption of less than 0.05% by volume when tested in accordance with ASTM D3575 and be resistant to weathering and chemical attack.

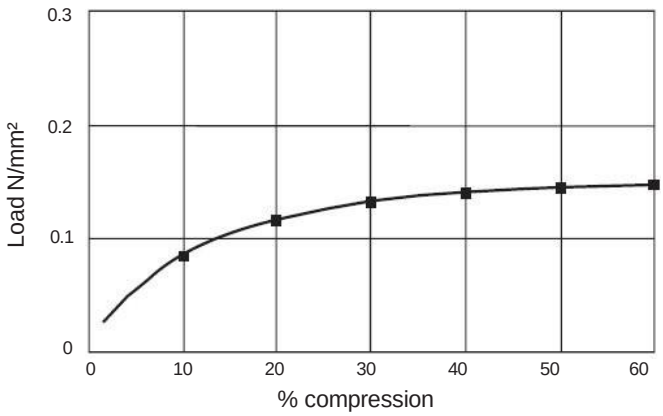
Properties

Property	Test method	Typical values
Recovery:	ASTM D3575 compression	98% after 50%
Compressive strength:	ASTM D3575	0.15 N/mm²
Water absorption:	ASTM D3575	Less than 0.05% by volume
Weathering test:	DTp Clause 1015	No disintegration
Chemical resistance:		Excellent resistance to acids, alkalis, oxidising agents and biological degradation

Compression loading

The load compression curve shown below gives typical compression values achieved in accordance with ASTM D3575.

Typical load/compression curve



Fosroc® Hydrocell XL

Application instructions

Joint sealing slots

When forming expansion joints with Hydrocell XL in in-situ concrete, joint sealing slots can be readily formed in the following manner.

Before installing, simply cut off a strip to the required depth. Pin the strip back by using 50 mm nails at approximately 100 mm intervals. Then install the filler flush with the finished surface.

Prior to sealing, the top strip can then be pulled easily from the joint to provide an uncontaminated sealing slot ready for preparation and sealing.

As elastomeric sealants will not bond to Hydrocell XL the additional need for bond breaker strips is eliminated.

Estimating

Hydrocell XL is supplied in the following sheet sizes and can be easily cut to the required size with a Stanley knife or saw.

10 mm x 1000 mm x 2000 mm
15 mm x 1000 mm x 2000 mm
20 mm x 1000 mm x 2000 mm
25 mm x 1000 mm x 2000 mm

For details of other thicknesses, contact Fosroc.

Limitations

Hydrocell XL should not be used when the operational temperature is continuously below -70°C or above 100°C.

Storage

Hydrocell XL should be stored in original unopened packaging, in cool dry conditions, away from sunlight.

Precautions

Health and safety

There are no known health hazards associated with Hydrocell XL in normal use.

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SDS

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes Date 22/09/2021 **Revision date** 10/06/2024 **Revision Number** 7

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name COLPOR 200PF BASE

Product Code(s) 1138120UK9, A1139065UK9

Safety data sheet number 12305

Form Liquid

Unique Formula Identifier (UFI) G830-J0WK-G00R-633U

Pure substance/mixture Mixture

CHLORINATED PARAFFIN (C14-C17), CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL, CASTOR OIL No 1

2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Base component of two part polyurethane sealant.

Uses advised against Consumer use

3. Details of the supplier of the safety data sheet

Supplier

Fosroc International Limited
Drayton Manor Business Park
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Staffordshire
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England
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444

For further information, please contact

E-mail address enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency Telephone +44 (0) 1827 265 279 (Monday to Sunday, 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Germ cell mutagenicity	Category 2 - (H341)
Carcinogenicity	Category 1B - (H350)
Effects on or via lactation	Yes - (H362)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

CHLORINATED PARAFFIN (C14-C17), CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL, CASTOR OIL No 1

Signal word
Danger

Hazard statements
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H341 - Suspected of causing genetic defects.
H350 - May cause cancer.
H362 - May cause harm to breast-fed children.
H373 - May cause damage to organs through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects. CHLORINATED PARAFFIN (C14-C17), CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL, CASTOR OIL No 1
EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary statements
P201 - Obtain special instructions before use.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P501 - Dispose of contents and container in accordance with national regulations..

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Additional information
This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

Other hazards Very toxic to aquatic life with long lasting effects.

PBT and vPvB assessment The product contains substance(s) classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

1 . Substances

Not applicable

2 . Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
CHLORINATED PARAFFIN (C14-17) 85535-85-9	25 - <50%	287-477-0 (602-095-00-X)	-	(EUH066) Lact. (H362) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	-	-
CREOSOTE OIL, ACENAPHTHENE FRACTION 90640-84-9	10 - <25%	292-605-3 (648-098-00-X)	-	Carc. 1B (H350)	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice First aid personnel should wear appropriate protective equipment before any rescue.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately if symptoms occur.

Skin contact Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth thoroughly with water. Get immediate medical attention.

Self-protection of the first aider Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Irritation of nose, throat and airway. Prolonged contact may cause redness and irritation. May cause sensitisation by skin contact. May cause redness and tearing of the eyes. May

cause discomfort if swallowed.

Effects of Exposure Contains a known or suspected carcinogen. Contains a known or suspected mutagen.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media CO_2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No unusual fire or explosion hazards noted.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances:. Carbon oxides. Hydrocarbons. Hydrogen chloride.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid breathing vapours or mists. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See section 8 for more information. If material is released indicate risk of slipping. Do not walk through spilled material.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent material from entering surface waters, drains or sewers and soil.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Avoid breathing vapours or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash it before reuse. Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in Section 1.2.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
CHLORINATED PARAFFIN (C14-17) 85535-85-9		47.9 mg/kg bw/day [4] [6]	6.7 mg/m³ [4] [6]
Calcined Kaolin 92704-41-1			3 mg/m³ [4] [6] 3 mg/m³ [4] [7] 3 mg/m³ [5] [6] 3 mg/m³ [5] [7]
CALCIUM CARBONATE (STEARATE COATED) 471-34-1			6.36 mg/m³ [5] [6]
CARBON BLACK 1333-86-4			1 mg/m³ [4] [6] 0.5 mg/m³ [5] [6]
N-(PARA-ETHOXYCARBONYLPHEN YL)-N'-METHYL-N'-PHENYL		1 mg/kg bw/day [4] [6]	0.6 mg/m³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
FORMAMIDINE 57834-33-0			

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
CHLORINATED PARAFFIN (C14-17) 85535-85-9	0.58 mg/kg bw/day [4] [6]		2 mg/m³ [4] [6]
CALCIUM CARBONATE (STEARATE COATED) 471-34-1	6.1 mg/kg bw/day [4] [6] 6.1 mg/kg bw/day [4] [7]		1.06 mg/m³ [5] [6]
CARBON BLACK 1333-86-4			0.06 mg/m³ [4] [6]
N-(PARA-ETHOXYCARBONYLPHEN YL)-N'-METHYL-N'-PHENYL FORMAMIDINE 57834-33-0	0.1 mg/kg bw/day [4] [6]		0.1 µg/m³ [4] [6]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
CHLORINATED PARAFFIN (C14-17) 85535-85-9	1 µg/L		0.2 µg/L		
Calcined Kaolin 92704-41-1	4.1 mg/L	25 mg/L	0.41 mg/L		
CREOSOTE OIL, ACENAPHTHENE FRACTION 90640-84-9	0.0017 mg/L	0.11 mg/L	0.00017 mg/L		
QUINOLINE 91-22-5	0.016 mg/L		0.0016 mg/L		
N-(PARA-ETHOXYCARBONYLPHENYL)-N'-METH YL-N'-PHENYL FORMAMIDINE 57834-33-0	1.4 µg/L	14 µg/L	0.14 µg/L	1.4 µg/L	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
CHLORINATED	13 mg/kg sediment	2.6 mg/kg sediment	80 mg/L	11.9 mg/kg soil dw	10 mg/kg food

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
PARAFFIN (C14-17) 85535-85-9	dw	dw			
Calcined Kaolin 92704-41-1			1400 mg/L		
CREOSOTE OIL, ACENAPHTHENE FRACTION 90640-84-9	0.72 mg/kg sediment dw	0.072 mg/kg sediment dw	1.6 mg/L	0.15 mg/kg soil dw	7.2 mg/kg food
CALCIUM CARBONATE (STEARATE COATED) 471-34-1			100 mg/L		
QUINOLINE 91-22-5	0.317 mg/kg sediment dw	0.0317 mg/kg sediment dw	8.7 mg/L	0.53 mg/kg soil dw	
N-(PARA-ETHOXYCARBONYLPHENYL)-N'-METH YL-N'-PHENYL FORMAMIDINE 57834-33-0	5.26 µg/kg sediment dw	0.526 µg/kg sediment dw	10 mg/L	0.231 µg/kg soil dw	

8.2. Exposure controls

Engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposurelimits for the product or ingredients. Showers, eyewash stations, and ventilation systems.

Personal protective equipment

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates that is necessary to avoid exposure to liquid splashes, mists or dusts. If splashes are likely to occur:. Wear safety glasses with side shields (or goggles). Face protection shield.

Hand protection The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about thebreakthrough time of the glove material.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	It is recommended that gloves are made of: Polyvinyl chloride (PVC), Rubber (natural, latex).	0.4 mm	
	Rubber (natural, latex)	0.4 mm	

Skin and body protection Wear appropriate clothing to prevent any possibility of liquid contact and repeated orprolonged vapour contact. Long sleeved clothing.

Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended filter type: It is recommended to use respiratory equipment with combination filter, type A2/P2.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Take

off all contaminated clothing and wash it before reuse.

Environmental exposure controls Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Paste
Colour	black
Odour	Aromatic hydrocarbons.
Odour threshold	Not determined

Property	**Values**	**Remarks • Method**
Melting point / freezing point	No data available	Not determined
Initial boiling point and boiling range	No data available	Not determined
Flammability	No data available	Not determined
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	Not determined
Autoignition temperature	No data available	Not determined
Decomposition temperature		Not determined
pH	No data available	None known
pH (as aqueous solution)	No data available	Not applicable
Kinematic viscosity	35000 - 50000 cps	@ 20 °C
Dynamic viscosity	No data available	Not determined.
Water solubility	Insoluble in water	None known
Solubility(ies)	Insoluble in water	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	Not determined
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	1.41 @25 C	
Relative vapour density	No data available	Not determined
Particle characteristics		
Particle Size	None known	
Particle Size Distribution	None known	
Explosive properties	Not considered to be explosive.	
Oxidising properties	No information available	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Isocyanates.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerisation None under normal processing.

4. Conditions to avoid

Conditions to avoid Strong oxidising agents. Keep away from open flames, hot surfaces and sources of ignition.

5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Thermal decomposition can lead to release of toxic/corrosive gases and vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract. (based on components).

Eye contact Causes eye irritation. May cause redness, itching, and pain. (based on components).

Skin contact May cause sensitisation by skin contact. Causes skin irritation. (based on components).

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Redness. May cause redness and tearing of the eyes.

Acute toxicity .

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,011.50 mg/kg
ATEmix (dermal)	8,378.50 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapour)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	99,999.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CHLORINATED PARAFFIN (C14-17)	= 2000 mg/kg (Rat)	-	-
CREOSOTE OIL, ACENAPHTHENE FRACTION	= 460 mg/kg (Rat)	= 2500 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	United Kingdom
CREOSOTE OIL, ACENAPHTHENE FRACTION	Carc. 1B

Reproductive toxicity Classification based on data available for ingredients. May cause harm to breast-fed children.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	United Kingdom
CHLORINATED PARAFFIN (C14-17)	Lact.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

Other adverse effects None known.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity The product contains a substance which is harmful to aquatic organisms and which maycause long-term adverse effects in the aquatic environment. Very toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
CREOSOTE OIL, ACENAPHTHENE FRACTION	EC50: =0.53mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =0.608mg/L (96h, Pimephales promelas) LC50: 1.3 - 4.01mg/L (96h, Pimephales	-	EC50: =0.193mg/L (48h, Daphnia magna)

		promelas)		

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation Material may have some potential to bioaccumulate.

Component Information

Chemical name	Partition coefficient
CHLORINATED PARAFFIN (C14-17)	7

12.4. Mobility in soil

Mobility in soil Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product contains substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
CHLORINATED PARAFFIN (C14-17)	The substance is not PBT / vPvB PBT & vPvB
CREOSOTE OIL, ACENAPHTHENE FRACTION	The substance is not PBT / vPvB

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Note that fully cured material is not considered as hazardous waste.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

1. **UN number or ID number** 3082
2. **UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S..(CONTAINS CHLORINATED PARAFFIN (C14-17), CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL)
3. **Transport hazard class(es)** 9
4. **Packing group** III
5. **Environmental hazards** Yes
6. **Special precautions for user**
   Special Provisions None

IMDG

1. **UN number or ID number** 3082
2. **UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS CHLORINATED PARAFFIN (C14-17), CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL)

3. Transport hazard class(es)	9
4. Packing group	III
5. Environmental hazards	Yes
6. Special precautions for user Special Provisions	None F-A S-F
7. Maritime transport in bulk according to IMO instruments	Not Applicable.

RID

1. UN number or ID number	3082
2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS CHLORINATED PARAFFIN (C14-17), CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL)
3. Transport hazard class(es)	9
4. Packing group	III
5. Environmental hazards	Yes
6. Special precautions for user Special Provisions	None

ADR

1. UN number or ID number	3082
2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL)
3. Transport hazard class(es)	9
4. Packing group	III
5. Environmental hazards	Yes
6. Special precautions for user Special Provisions	None
Tunnel restriction code	(E)

Special precautions for user No special precautions are needed in handling this material

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Candidate List of Substances of Very High Concern for Authorisation: Medium-chainchlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80%linear chloroalkanes with carbon chain lengths within the range from C14 to C17 Control of Substances Hazardous to Health Regulations 2002 (as amended). Workplace Exposure Limits EH40 REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
CREOSOTE OIL, ACENAPHTHENE FRACTION - 90640-84-9	Use restricted. See item 28. Use restricted. See item 31[d]. Restricted Carcinogen 1B	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

This product contains one or more substances pursuant to GB Prior Informed Consent (PIC) Regulations (as amended)

Chemical name	Export Notification requirements
CREOSOTE OIL, ACENAPHTHENE FRACTION - 90640-84-9	I.1

Dangerous substance category per COMAH (SI 2015/483 as amended)
E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Named dangerous substances per COMAH (SI 2015/483 as amended)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
CREOSOTE OIL, ACENAPHTHENE FRACTION - 90640-84-9	-	25000

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)
Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)
Not applicable

Poisons and Explosive Precursors
Not applicable

Other Regulations Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16December 2008 on classification, labelling and packaging of substances and mixtures (asamended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18December 2006 concerning the Registration, Evaluation, Authorisation and Restriction ofChemicals (REACH) (as amended).

International Inventories

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report No chemical safety assessment has been carried out for this product.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H350 - May cause cancer
H362 - May cause harm to breast-fed children
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitisers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Supercedes date 22/09/2021

Revision date 10/06/2024

Reason for revision	Revision marks (***) indicate changes since the last revision.
Restrictions on use	For professional use only
Further information	The information contained in this sheet is based on the best knowledge and experience currently available

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes Date 09/23/2021 **Revision date** 07/31/2023 **Revision Number** 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 1138180UK9, A1139106UK9

Safety data sheet number 12430

Product Name COLPOR 200PF CURING AGENT

Unique Formula Identifier (UFI) 5A30-20KY-T007-VEPW

Pure substance/mixture Mixture

Contains CHLORINATED PARAFFIN (C14-17), DIPHENYLMETHANE DIISOCYANATE

2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Two-component, isocyanate-based sealant.

Uses advised against

3. Details of the supplier of the safety data sheet

Supplier

Fosroc International Limited
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
England
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444

–

E-mail address enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency Telephone +44 (0) 1827 265 279 (Monday to Sunday, 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Acute toxicity - Inhalation (Gases)	Category 4 - (H332)
Acute toxicity - Inhalation (Vapors)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitization	Category 1 - (H334)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Effects on or via lactation	Yes - (H362)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

Contains CHLORINATED PARAFFIN (C14-17), DIPHENYLMETHANE DIISOCYANATE

Signal word
Danger

Hazard statements
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351 - Suspected of causing cancer
H362 - May cause harm to breast-fed children
H373 - May cause damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects
EUH066 - Repeated exposure may cause skin dryness or cracking
EUH204 - Contains isocyanates. May produce an allergic reaction

Precautionary statements
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P263 - Avoid contact during pregnancy and while nursing
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor
P391 - Collect spillage

Additional information
As from 24th August 2023, adequate training is required before industrial or professional use of this product. This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB according to applicable EU criteria.

SECTION 3: Composition/information on ingredients

1 . Substances

Not applicable

2 . Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
CHLORINATED PARAFFIN (C14-17) 85535-85-9	50 - <100%	287-477-0	-	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Lact. (H362)	-	-	-
DIPHENYLMETHANE DIISOCYANATE 9016-87-9	10 - <25%	618-498-9	-	Acute Tox. 4 (H332) Carc. 2 (H351) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) STOT RE 2 (H373) STOT SE 3 (H335)	-	-	-

Full text of H- and EUH-phrases: see section 16

Additional information
This product contains one or more candidate substance(s) of very high concern (UK REACH Article 59)

Chemical name	CAS No	SVHC candidates
CHLORINATED PARAFFIN (C14-17)	85535-85-9	X

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

Inhalation Remove affected person from source of contamination. Move affected person to fresh air andkeep warm and at rest in a position comfortable for breathing. Get medical attention if anydiscomfort continues. May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion	Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapors or mists.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Treat symptomatically. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Prolonged skin contact may cause redness and irritation. May cause skin sensitisation orallergic reactions in sensitive individuals. Upper respiratory irritation. May cause severe eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Difficulty in breathing.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by inhalation. May cause sensitization by skin contact.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanate vapours.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Do not discharge into drains, watercourses or onto the ground. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Avoid breathing vapors or mists.
General hygiene considerations	Provide eyewash station and safety shower. Discard contaminated shoes and clothing. Wash promptly withsoap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Specific use(s)
The identified uses for this product are detailed in Section 1.2.

Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
DIPHENYLMETHANE DIISOCYANATE 9016-87-9	TWA: 0.02 mg/m³ STEL: 0.07 mg/m³ *Sen

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
CHLORINATED PARAFFIN (C14-17) 85535-85-9		47.9 mg/kg bw/day [4] [6]	6.7 mg/m³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
CHLORINATED PARAFFIN (C14-17) 85535-85-9	0.58 mg/kg bw/day [4] [6]		2 mg/m³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
CHLORINATED PARAFFIN (C14-17) 85535-85-9	1 µg/L		0.2 µg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
CHLORINATED PARAFFIN (C14-17) 85535-85-9	13 mg/kg sediment dw	2.6 mg/kg sediment dw	80 mg/L	11.9 mg/kg soil dw	10 mg/kg food

8.2. Exposure controls

Engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposurelimits for the product or ingredients.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn ifa risk assessment indicates skin contact is possible. Protective gloves should have a minimum thickness of 0.4 mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about thebreakthrough time of the glove material. Wear suitable gloves. Impervious gloves.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Nitrile rubber	0.4mm	
Short term	Butyl rubber	0.4mm	

Skin and body protection Wear appropriate clothing to prevent any possibility of liquid contact and repeated orprolonged vapour contact. Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. When spraying, weara suitable supplied-air respirator.

General hygiene considerations Provide eyewash station and safety shower. Discard contaminated shoes and clothing. Wash promptly withsoap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Viscous Liquid
Color brown
Odor Musty.
Odor threshold No information available.

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	200 °C	None known
Flammability	No data available	Not flammable
Flammability Limit in Air		Not determined
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	180 °C	CC (closed cup)
Autoignition temperature	No data available	Not applicable
Decomposition temperature		Not applicable
pH	No data available	Not applicable
pH (as aqueous solution)	No data available	Not applicable
Kinematic viscosity		Not determined
Dynamic viscosity		Not determined.
Water solubility	Insoluble in water	

Solubility(ies)	None known	
Partition coefficient		Not applicable
Vapor pressure		Not applicable
Relative density	1.25	None known
Bulk density		
Liquid Density	1.25	
Relative vapor density	No data available	Not applicable
Particle characteristics		Not determined
Particle Size	No information available.	
Particle Size Distribution	No information available.	
Explosive properties	Not considered to be explosive.	
Oxidizing properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.	

9.2. Other information no data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product:. Acids. Alcohols. Amines. Glycols. Finely powdered metals. Alkaline earth metals.

2. Chemical stability

Stability Will decompose at temperatures exceeding 200°C.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

4. Conditions to avoid

Conditions to avoid Excessive heat.

5. Incompatible materials

Incompatible materials Moisture. Strong acids. Strong bases. Strong oxidizing agents.

6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating and toxic gases and vapors. Isocyanate vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). May cause irritation of respiratory tract.

Harmful by inhalation.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Causes skin irritation.

Ingestion Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms See Section 4 for more information. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,337.20 mg/kg
ATEmix (dermal)	9,400.00 mg/kg
ATEmix (inhalation-gas)	4,500.00 ppm
ATEmix (inhalation-dust/mist)	1.50 mg/l
ATEmix (inhalation-vapor)	11.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CHLORINATED PARAFFIN (C14-17)	= 2000 mg/kg (Rat)	-	-
DIPHENYLMETHANE DIISOCYANATE	= 49 g/kg (Rat)	> 9.4 g/kg (Rabbit)	= 490 mg/m³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

Reproductive toxicity Classification based on data available for ingredients. May cause harm to breast-fed

children.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	United Kingdom
CHLORINATED PARAFFIN (C14-17)	Lact.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability The product is not expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation Not expected to be bioaccumulative.

Component Information

Chemical name	Partition coefficient
CHLORINATED PARAFFIN (C14-17)	7

12.4. Mobility in soil

Mobility in soil Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product contains substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
CHLORINATED PARAFFIN (C14-17)	The substance is not PBT / vPvB PBT & vPvB

12.6. Other adverse effects

Other adverse effects No information available.

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IATA

1. UN number or ID number	3082
2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17))
3. Transport hazard class(es)	9
4. Packing group	III
5. Environmental hazards	Yes
6. Special precautions for user	
Special Provisions	None
ERG Code	•3Z

IMDG

1. UN number or ID number	3082
2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS CHLORINATED PARAFFIN (C14-17))
3. Transport hazard class(es)	9
4. Packing group	III
5. Environmental hazards	Yes
6. Special precautions for user	
Special Provisions	None
EmS-No	F-A, S-F
7. Maritime transport in bulk according to IMO instruments	Not applicable

RID

1. UN number or ID number	3082
2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS CHLORINATED PARAFFIN (C14-17))
3. Transport hazard class(es)	9
4. Packing group	III
5. Environmental hazards	Yes
6. Special precautions for user	
Special Provisions	None
Classification code	M6

ADR

1. UN number or ID number	3082
2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17))
3. Transport hazard class(es)	9
4. Packing group	III
5. Environmental hazards	Yes
6. Special precautions for user	
Special Provisions	None

Special precautions for user Emergency Action Code •3Z

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended). Workplace Exposure Limits EH40. Candidate List of Substances of Very High Concern for Authorisation: Medium-chainchlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80%linear chloroalkanes with carbon chain lengths within the range from C14 to C17.

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants
Not applicable

Export Notification requirements
Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)
E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Named dangerous substances per COMAH Regulations 2015 (as amended)
Not applicable

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)
Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)
Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)
Not applicable

Other Regulations Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16December 2008 on classification, labelling and packaging of substances and mixtures (asamended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18December 2006 concerning the Registration, Evaluation, Authorisation and Restriction ofChemicals (REACH) (as amended).

15.2. Chemical safety assessment

Chemical Safety Report No chemical safety assessment has been carried out.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H315 - Causes skin irritation

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H362 - May cause harm to breast-fed children
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Supersedes Date	09/23/2021
Revision date	07/31/2023
Reason for revision	Updated according to EU Regulation 2020/878
Restrictions on use	For professional use only

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes Date 14/07/2023 **Revision date** 12/04/2024 **Revision Number** 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name FOSROC PRIMER 20

Product Code(s) 2105006, 1561022

Safety data sheet number 12543

Unique Formula Identifier (UFI) QFA0-20VX-7009-SS28

Pure substance/mixture Mixture

Contains XYLENE, AROMATIC POLYISOCYANATE PREPOLYMER, ETHYLBENZENE, DIPHENYLMETHANE-4,4'-DI-ISOCYANATE, Polymeric MDI, DIPHENYLMETHANE-2,4'-DI-ISOCYANATE, DIPHENYLMETHANE-2,2'-DI-ISOCYANATE

2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Primers

Uses advised against Consumer use

3. Details of the supplier of the safety data sheet

Supplier

Fosroc International Limited
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
England
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444

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E-mail address enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency Telephone +44 (0) 1827 265 279 (Monday to Sunday, 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Flammable liquids	**Category 3 - (H226)**
Acute toxicity - Inhalation (Gases)	Category 4 - (H332)
Acute toxicity - Inhalation (Vapours)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains XYLENE, AROMATIC POLYISOCYANATE PREPOLYMER, ETHYLBENZENE, DIPHENYLMETHANE-4,4'-DI-ISOCYANATE, Polymeric MDI, DIPHENYLMETHANE-2,4'-DI-ISOCYANATE, DIPHENYLMETHANE-2,2'-DI-ISOCYANATE

Signal word
Danger

Hazard statements
H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.
H412 - Harmful to aquatic life with long lasting effects.
EUH204 - Contains isocyanates. May produce an allergic reaction.

Precautionary statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 - Do NOT induce vomiting.
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.

P391 - Collect spillage.

Unknown acute toxicity

46.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
26.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
26.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
26.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public. As from 24th August 2023, adequate training is required before industrial or professional use of this product.

2.3. Other hazards

Other hazards This product does not contain any substances classified as PBT or vPvB according to applicable EU criteria.

SECTION 3: Composition/information on ingredients

1 . Substances

Not applicable

2 . Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
XYLENE 1330-20-7	25 - <50%	215-535-7 (601-022-00-9)	-	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315)	-	-	-
AROMATIC POLYISOCYANATE PREPOLYMER 67815-87-6	25 - <50%	-	-	-	-	-	-
ETHYLBENZENE 100-41-4	10 - <25%	202-849-4 (601-023-00-4)	-	Flam. Liq. 2 (H225) Acute Tox. 4 (H332) STOT RE 2 (H373) Asp. Tox. 1 (H304)	-	-	-
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE 101-68-8	10 - <25%	202-966-0 (615-005-00-9)	-	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	-	-
Polymeric MDI 32055-14-4	5 - <10%	-	-	-	-	-	-
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE 5873-54-1	2.5 - <5%	227-534-9 (615-005-00-9)	-	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	-	-
				(H334) Skin Sens. 1 (H317) Carc. 2 (H351)	Skin Irrit. 2 :: C>=5%		

				STOT SE 3 (H335) STOT RE 2 (H373)	STOT SE 3 :: C>=5%		
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE 2536-05-2 **Full text of H- and EUH-phrases: see section 16**	0.025 - <0.25%	219-799-4 (615-005-00-9)	-	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	-	-

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Get medical attention if irritation or other symptoms occur.

Inhalation May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention. Aspiration into lungs can produce severe lung damage. If breathing is difficult, (trained personnel should) give oxygen.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a doctor.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. May produce an allergic reaction. Get immediate medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapours or mists.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Difficulty in breathing. Dizziness. May cause redness and tearing of the eyes. Burning sensation.

Effects of Exposure No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitiser. May cause sensitisation by inhalation. May cause sensitisation by skin contact.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanate vapours.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapours or mists.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

7.3. Specific end use(s)

Specific use(s)
The identified uses for this product are detailed in Section 1.2.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
XYLENE 1330-20-7	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ Sk*
ETHYLBENZENE 100-41-4	TWA: 100 ppm TWA: 441 mg/m³ STEL: 125 ppm STEL: 552 mg/m³ Sk*
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	TWA: 0.02 mg/m³

101-68-8	STEL: 0.07 mg/m³ Sen+
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE 5873-54-1	TWA: 0.02 mg/m³ STEL: 0.07 mg/m³ Sen+
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE 2536-05-2	TWA: 0.02 mg/m³ STEL: 0.07 mg/m³ Sen+

Biological occupational exposure limits

Chemical name	United Kingdom
XYLENE 1330-20-7	650 mmol/mol creatinine - urine (Methyl hippuric acid) - post shift

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
XYLENE 1330-20-7		212 mg/kg bw/day [4] [6]	221 mg/m³ [4] [6] 442 mg/m³ [4] [7] 221 mg/m³ [5] [6] 442 mg/m³ [5] [7]
ETHYLBENZENE 100-41-4		180 mg/kg bw/day [4] [6]	77 mg/m³ [4] [6] 293 mg/m³ [5] [7]
DIPHENYLMETHANE-4,4'-DI-ISOCY ANATE 101-68-8			0.05 mg/m³ [5] [6] 0.1 mg/m³ [5] [7]
Polymeric MDI 32055-14-4			0.05 mg/m³ [5] [6] 0.1 mg/m³ [5] [7]
DIPHENYLMETHANE-2,4'-DI-ISOCY ANATE 5873-54-1			0.05 mg/m³ [5] [6] 0.1 mg/m³ [5] [7]
DIPHENYLMETHANE-2,2'-DI-ISOCY ANATE 2536-05-2			0.05 mg/m³ [5] [6] 0.1 mg/m³ [5] [7]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
XYLENE 1330-20-7	12.5 mg/kg bw/day [4] [6]		65.3 mg/m³ [4] [6] 260 mg/m³ [4] [7] 65.3 mg/m³ [5] [6] 260 mg/m³ [5] [7]
ETHYLBENZENE 100-41-4	1.6 mg/kg bw/day [4] [6]		15 mg/m³ [4] [6]
DIPHENYLMETHANE-4,4'-DI-ISOCY ANATE 101-68-8			0.025 mg/m³ [5] [6] 0.05 mg/m³ [5] [7]
Polymeric MDI			0.025 mg/m³ [5] [6]

Chemical name	Oral	Dermal	Inhalation
32055-14-4			0.05 mg/m³ [5] [7]
DIPHENYLMETHANE-2,4'-DI-ISOCY ANATE 5873-54-1			0.025 mg/m³ [5] [6] 0.05 mg/m³ [5] [7]
DIPHENYLMETHANE-2,2'-DI-ISOCY ANATE 2536-05-2			0.025 mg/m³ [5] [6] 0.05 mg/m³ [5] [7]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
XYLENE 1330-20-7	0.327 mg/L	0.327 mg/L	0.327 mg/L		
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE 101-68-8	1 mg/L	10 mg/L	0.1 mg/L		
Polymeric MDI 32055-14-4	1 mg/L	10 mg/L	0.1 mg/L		
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE 5873-54-1	1 mg/L	10 mg/L	0.1 mg/L		
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE 2536-05-2	1 mg/L	10 mg/L	0.1 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
XYLENE 1330-20-7	12.46 mg/kg sediment dw	12.46 mg/kg sediment dw	6.58 mg/L	2.31 mg/kg soil dw	
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE 101-68-8			1 mg/L	1 mg/kg soil dw	
Polymeric MDI 32055-14-4			1 mg/L	1 mg/kg soil dw	
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE 5873-54-1			1 mg/L	1 mg/kg soil dw	
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE 2536-05-2			1 mg/L	1 mg/kg soil dw	

8.2. Exposure controls

Engineering controls Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about thebreakthrough time of the glove material.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Nitrile rubber Butyl rubber Viton gloves	0.4mm	
Short term	Viton gloves	0.4mm	

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection Respiratory protection is usually not required. Use appropriate protection if exposure limits are exceeded. Wear a respirator fitted with the following cartridge: Organic vapour filter.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Colour	brown
Odour	Aromatic.
Odour threshold	Not determined

Property	**Values**	**Remarks • Method**
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	140 °C	None known
Flammability	No data available	Not flammable
Flammability Limit in Air		None known
Upper flammability or explosive limits	7%	
Lower flammability or explosive limits	1.1%	
Flash point	30 °C	CC (closed cup)
Autoignition temperature	500 °C	None known
Decomposition temperature	Not determined	Not applicable
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	Not determined
Dynamic viscosity	No data available	Not determined.
Water solubility	Insoluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	Not applicable
Vapour pressure	1 kPa	None known
Relative density	1.04	None known
Bulk density	No data available	

Liquid Density	1.04	
Relative vapour density	No data available	Not applicable
Particle characteristics		Not applicable
Particle Size	no information available.	
Particle Size Distribution	no information available.	
Explosive properties	Not considered to be explosive.	
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.	

9.2. Other information

VOC content 480 g/L

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Reactions with the following materials may generate heat: Amines. Alcohols, glycols. Water,forming CO2; in closed containers, risk of bursting owing to pressure increase.

2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

3. Possibility of hazardous reactions

Possibility of hazardous reactions Contact with water generates heat.

4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat. Strong oxidising agents.

5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents. Water. Amines. Hydrocarbons.

6. Hazardous decomposition products

Hazardous decomposition products Fire creates:. Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanate vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause pulmonary edema. May cause irritation of respiratory tract. Harmful by inhalation.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Repeated exposure may cause skin dryness or cracking. Causes skin irritation.

Ingestion Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Difficulty in breathing. Dizziness. Redness. May cause redness and tearing of the eyes.

Acute toxicity .

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	4,420.40 mg/kg
ATEmix (dermal)	1,775.60 mg/kg
ATEmix (inhalation-gas)	4,506.10 ppm
ATEmix (inhalation-vapour)	11.00 mg/l
ATEmix (inhalation-dust/mist)	1.50 mg/l

Unknown acute toxicity

46.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
26.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
26.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
26.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
XYLENE	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h
ETHYLBENZENE	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
DIPHENYLMETHANE-4,4'-DI-ISOCY ANATE	= 31600 mg/kg (Rat)	-	= 369 mg/m³ (Rat) 4 h
DIPHENYLMETHANE-2,4'-DI-ISOCY ANATE	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 490 mg/m³ (Rat) 4 h
DIPHENYLMETHANE-2,2'-DI-ISOCY ANATE	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 490 mg/m³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	United Kingdom
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	Carc. 2
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE	Carc. 2
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE	Carc. 2

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

H373 - May cause damage to the following organs through prolonged or repeated exposure: Hearing organs.

Aspiration hazard Based on available data, the classification criteria are not met.

Other adverse effects no information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
XYLENE	EC50: =11mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =13.4mg/L (96h, Pimephales promelas) LC50: 2.661 - 4.093mg/L (96h, Oncorhynchus mykiss) LC50: 13.5 - 17.3mg/L (96h, Oncorhynchus mykiss) LC50: 13.1 - 16.5mg/L (96h, Lepomis macrochirus) LC50: =19mg/L (96h, Lepomis macrochirus) LC50: 7.711 - 9.591mg/L (96h, Lepomis macrochirus) LC50: 23.53 - 29.97mg/L (96h, Pimephales promelas)	-	EC50: =3.82mg/L (48h, water flea) LC50: =0.6mg/L (48h, Gammarus lacustris)

		LC50: =780mg/L (96h, Cyprinus carpio) LC50: >780mg/L (96h, Cyprinus carpio) LC50: 30.26 - 40.75mg/L (96h, Poecilia reticulata)		
ETHYLBENZENE	EC50: =4.6mg/L (72h, Pseudokirchneriella subcapitata) EC50: >438mg/L (96h, Pseudokirchneriella subcapitata) EC50: 2.6 - 11.3mg/L (72h, Pseudokirchneriella subcapitata) EC50: 1.7 - 7.6mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 11.0 - 18.0mg/L (96h, Oncorhynchus mykiss) LC50: =4.2mg/L (96h, Oncorhynchus mykiss) LC50: 7.55 - 11mg/L (96h, Pimephales promelas) LC50: =32mg/L (96h, Lepomis macrochirus) LC50: 9.1 - 15.6mg/L (96h, Pimephales promelas) LC50: =9.6mg/L (96h, Poecilia reticulata)	-	EC50: 1.8 - 2.4mg/L (48h, Daphnia magna)
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	-	-	EC_{50}, 3 hours: > 100 mg/l, Pseudomonas putida	-
Polymeric MDI	-	-	EC_{50}, 3 hours: > 100 mg/l, Pseudomonas putida	-

12.2. Persistence and degradability

Persistence and degradability The product is not expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation Not likely to bioaccumulate.

Component Information

Chemical name	Partition coefficient
XYLENE	3.15
ETHYLBENZENE	3.6
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	4.51
Polymeric MDI	4.51
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE	4.5
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE	4.5

12.4. Mobility in soil

Mobility in soil Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
XYLENE	The substance is not PBT / vPvB
ETHYLBENZENE	The substance is not PBT / vPvB
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	The substance is not PBT / vPvB

Polymeric MDI	The substance is not PBT / vPvB
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE	The substance is not PBT / vPvB
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE	The substance is not PBT / vPvB

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: Transport information

IATA

1. **UN number or ID number** 1866
2. **UN proper shipping name** RESIN SOLUTION
3. **Transport hazard class(es)** 3
4. **Packing group** III
5. **Environmental hazards** Not applicable
6. **Special precautions for user**
   Special Provisions None

IMDG

1. **UN number or ID number** 1866
2. **UN proper shipping name** RESIN SOLUTION
3. **Transport hazard class(es)** 3
4. **Packing group** III
5. **Environmental hazards** Not applicable
6. **Special precautions for user**
   Special Provisions None
7. **Maritime transport in bulk according to IMO instruments** no information available.

RID

1. **UN number or ID number** 1866
2. **UN proper shipping name** RESIN SOLUTION
3. **Transport hazard class(es)** 3
4. **Packing group** III
5. **Environmental hazards** Not applicable
6. **Special precautions for user**
   Special Provisions None
   Classification code F1

ADR

1. **UN number or ID number** 1866
2. **UN proper shipping name** RESIN SOLUTION
3. **Transport hazard class(es)** 3
4. **Packing group** III
5. **Environmental hazards** Not applicable
6. **Special precautions for user**

Special Provisions	None
Classification code	F1
Tunnel restriction code	D/E

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Control of Substances Hazardous to Health Regulations 2002 (as amended). Workplace Exposure Limits EH40

Authorisations and/or restrictions on use:
This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
XYLENE - 1330-20-7	Use restricted. See item 28. Use restricted. See item 29.	-
ETHYLBENZENE - 100-41-4	Use restricted. See item 28. Use restricted. See item 29.	-
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE - 101-68-8	Use restricted. See item 56[a].	-
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE - 5873-54-1	Use restricted. See item 56[b].	-
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE - 2536-05-2	Use restricted. See item 56[c].	-

Persistent Organic Pollutants
Not applicable

Export Notification requirements
Not applicable

Dangerous substance category per COMAH (SI 2015/483 as amended)
E2 - Hazardous to the Aquatic Environment in Category Chronic 2
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

Named dangerous substances per COMAH (SI 2015/483 as amended)
Not applicable

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)
Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)
Not applicable

Poisons and Explosive Precursors
Not applicable

Other Regulations

Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16December 2008 on classification, labelling and packaging of substances and mixtures (asamended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18December 2006 concerning the Registration, Evaluation, Authorisation and Restriction ofChemicals (REACH) (as amended).

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status
TCSI	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report No chemical safety assessment has been carried out.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects
H413 - May cause long lasting harmful effects to aquatic life

Legend
SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitisers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Issuing Date	09/04/2024
Supercedes date	14/07/2023
Revision date	12/04/2024
Reason for revision	Updated according to EU Regulation 2020/878
Restrictions on use	For professional use only

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical

agents at work

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET
Expandafoam
This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Expandafoam

Product number 1448020 UK9, 1448040 UK9, 1448060 UK9, 1449020 UK9, 1450020 UK9, 1450040 UK9, 1451000 UK9, 1451020 UK9, 1452020 UK9, 1452040 UK9, 1453010 UK9, 1454020 UK9, 1454060 UK9, 1454100 UK9, 1455010 UK9, 1456020 UK9, 1457000 UK9, 1459000 UK9, 1460000 UK9

2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Expansion joint filler

3. Details of the supplier of the safety data sheet

Supplier

FOSROC Limited
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444
enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health See Section 11 for additional information on health hazards.

Environmental The product is not expected to be hazardous to the environment.

Physicochemical When handled correctly, undamaged units represent no danger.

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

Expandafoam

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Composition comments This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Not relevant.

Ingestion Not relevant.

Skin contact Not applicable.

Eye contact Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

General information No specific symptoms noted.

Inhalation Inhalation of dusts during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Ingestion No specific symptoms known.

Skin contact No specific symptoms known.

Eye contact Vapour, spray or dust may cause chronic eye irritation or eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards None.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Black smoke

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Collect and dispose of spillage as indicated in Section 13.

Expandafoam

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Not relevant.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. No specific recommendations. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions No special storage precautions required.

Storage class Not applicable.

7.3. Specific end use(s)

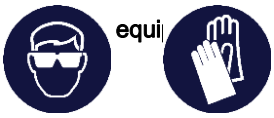
Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

2. Exposure controls



Appropriate engineering controls Provide adequate ventilation.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection Gloves are recommended for prolonged use. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection Wear appropriate clothing to prevent any possibility of skin contact. Wear protective gloves.

Hygiene measures Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Solid

Colour White. Grey.

Odour No characteristic odour.

Expandafoam

Odour threshold	Not applicable.
pH	Not applicable.
Melting point	decomposes >300°C
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	No.
Upper/lower flammability or explosive limits	The product is not flammable.
Other flammability	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not determined.
Bulk density	Not determined.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No data available.

SECTION 10: Stability and reactivity

1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

2. Chemical stability

Stability	Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not relevant. Will not polymerise.

4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.

5. Incompatible materials

Expandafoam

Materials to avoid None known.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Not regarded as a health or environmental hazard under current legislation.

General information No specific health hazards known.

Inhalation No specific health hazards known.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact No specific health hazards known.

Acute and chronic health hazards No specific health hazards known.

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Biodegradation Not relevant.

3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

4. Mobility in soil

Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

Disposal methods No specific disposal method required.

SECTION 14: Transport information

Expandafoam

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

1. UN number

Not applicable.

2. UN proper shipping name

Not applicable.

3. Transport hazard class(es)

No transport warning sign required.

4. Packing group

Not applicable.

5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

6. Special precautions for user

Not applicable.

SECTION 15: Regulatory information

7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

Guidance Workplace Exposure Limits EH40.

Authorisations (Title VII Regulation 1907/2006) No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006) No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information For professional users only.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Expandafoam

Revision date	22/08/2018
Revision	3b
Supersedes date	23/05/2017

SAFETY DATA SHEET
HYDROCELL XL

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name HYDROCELL XL

Product number 1627000UK9, 1628000UK9, 1629000UK9, 1630000UK9

2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Expansion joint filler

3. Details of the supplier of the safety data sheet

Supplier

FOSROC Limited
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444
enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) -

Human health See Section 11 for additional information on health hazards.

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

HYDROCELL XL

3.1. Substances

Product name	HYDROCELL XL
Composition comments	No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	No risk of irritation
Inhalation	No specific recommendations.
Ingestion	None known
Skin contact	No specific recommendations.
Eye contact	Mechanical irritation only

4.2. Most important symptoms and effects, both acute and delayed

General information	No specific symptoms noted.
Inhalation	Inhalation of dusts during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
Ingestion	No specific symptoms known.
Skin contact	No specific symptoms known.
Eye contact	Vapour, spray or dust may cause chronic eye irritation or eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.

SECTION 5: Firefighting measures

1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.

2. Special hazards arising from the substance or mixture

Specific hazards	None.
Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions	Avoid or minimise the creation of any environmental contamination.

6.3. Methods and material for containment and cleaning up

HYDROCELL XL

Methods for cleaning up Not relevant.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Harmful dust may be released during cutting or grinding process.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame.

Storage class Not applicable.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

2. Exposure controls

Appropriate engineering controls Provide adequate ventilation.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection Gloves are recommended for prolonged use.

Other skin and body protection Wear appropriate clothing to prevent any possibility of skin contact. Wear protective gloves.

Hygiene measures Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Solid.

Colour Black.

Odour Odourless.

Melting point 165°C

Initial boiling point and range Not applicable.

HYDROCELL XL

Flash point	Not applicable.
Flammability (solid, gas)	Not determined.
Vapour pressure	Not applicable.
Solubility(ies)	Not Significant
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No data available.

SECTION 10: Stability and reactivity

1. Reactivity

Reactivity	Stable at normal ambient temperatures and when used as recommended.

2. Chemical stability

Stability	Stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not relevant.

4. Conditions to avoid

Conditions to avoid	Keep at temperature not exceeding 250°C.

5. Incompatible materials

Materials to avoid	Strong oxidising agents. Aromatic solvents.

10.6. Hazardous decomposition products

Hazardous decomposition products	Carbon dioxide (CO2). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Not regarded as a health or environmental hazard under current legislation.

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} >2000 mg/kg, Oral, Rat
General information	No specific health hazards known.
Inhalation	No specific health hazards known.
Ingestion	May cause discomfort if swallowed.
Acute and chronic health hazards	No specific health hazards known.
Target organs	Not relevant.
Medical symptoms	No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

HYDROCELL XL

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: >1538 mg/l, Brachydanio rerio (Zebra Fish)

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Phototransformation Not relevant.

Biodegradation Not relevant.

3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

4. Mobility in soil

Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not relevant.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

Disposal methods Reuse or recycle products wherever possible. No specific disposal method required.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

1. UN number

Not applicable.

2. UN proper shipping name

Not applicable.

3. Transport hazard class(es)

No transport warning sign required.

4. Packing group

Not applicable.

5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

6. Special precautions for user

Not applicable.

7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance	Workplace Exposure Limits EH40.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	For professional users only.
Revision comments	This is the first issue.
Revision date	16/01/2019
Revision	1b
SDS number	21591
Risk phrases in full	Not classified.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

DECLARATION OF PERFORMANCE

Number: UK9-53

UK DECLARATION OF PERFORMANCE

In compliance with the Construction Products Regulation (EU) No 305/2011 as amended by The Construction Products (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019/465)

1 Unique identification code of the product-type:

COLPOR 200PF, 1138100, 1138140

2 Intended use as foreseen by the manufacturer of the construction product in accordance with the harmonised technical specification:

Joint sealants for concrete pavements - cold applied

3 Name, registered trade name or registered trade mark and contact address of the manufacturer as set out in article 11 (5)

Fosroc International Limited
Drayton Manor Business Park
Coleshill Road, Tamworth
Staffordshire, B78 3XN, UK

4 Name and contact address of the authorised representative who has received a mandate for the tasks set out on Article 12 (2):

Not Relevant

5 System or systems for assessment and verification of constancy of performance of the construction product in accordance with Annex V

System 4

6a In the case of a declaration of performance concerning a construction product that is covered by a harmonised standard

EN 14188-2:2004

The notified body

The product is subject to in-plant production control

6b In case of a declaration of performance concerning a construction product for which a European Technical Assessment was issued

Not Relevant

Issue Number: 1

Number: UK9-53

7 Declared performance

Essential Characteristics	Performance	Test Method
Bonding strength	23°C ≥ 0.15 MPa -20°C ≤ 0.6 MPa	EN 28340
Cohesion for cold climate areas	No failure at -30°C ≤1.0MPa	EN 14187-9
Elastic recovery	≥70%	EN ISO 7389
Adhesion/cohesion properties after immersion in liquid	No failure	EN 14187-6
Change in mass/volume after immersion in liquid chemicals	Change in mass ≤-25% and ≤+30% by volume	EN 14187-4
Artificial weathering by UV irradiation	≤20% change in modulus at 100% extension	EN 14187-8
Resistance to flame	Pass	EN 14187-7

8 Appropriate Technical Documentation and/or Specific Technical Documentation:

Not Relevant

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Signed for the manufacturer and in the name of the manufacturer by:

Jon Potter

Technical Manager

Place and Date of Issue: 30th June 2022 Tamworth

Issue Number: 1

METHOD STATEMENT

COLD APPLIED, PAVEMENT JOINT SEALANT
Colpor 200PF

1. Substrate Preparation

a. Joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and free from frost. Remove all dust and loose material by grit blasting or grinding. Avoid polishing the joint sides when grinding. The prepared sealing slot should be blown out with dry, oil-free compressed air. When resealing all traces of previously applied sealant should be removed.

b. The base of the joint should be tightly packed with a joint backing cord, Expandafoam, which should be placed to ensure the correct joint profile is produced. If the joint is not deep enough to accept Expandafoam a debonding tape should be inserted into the base of the joint. Ensure the correct joint profile is obtained.

2. Priming – Concrete

a. Decant sufficient primer into a clean dry tin for the day's usage. Do not return unused primer to the supply tin at the end of the day. Prime the joint faces with a thin uniform coat of primer and allow solvent to evaporate before sealing. This takes between 30 minutes and 2 hours depending on climatic conditions. If sealant is not applied within 2 hours the joint face should be reprimed.

b. Where concrete joints are exposed or subject to conditions of prevailing damp or where the concrete is unusually dense or porous the use of Fosroc Primer 19 is recommended. Contact the local Fosroc office for further details.

3. Priming – Asphalt

a. To the clean, sound asphalt joint face apply Nitoflor FC130 and allow to dry. Then prime both joint faces with Fosroc Primer 20 as described above and seal the joint as detailed in the mixing and application instructions. If the asphalt is new, has a high or soft bitumen content, undertake local adhesion tests before main sealing works to confirm bond. If the results are satisfactory (cohesive failure within asphalt or sealant) then proceed with joint sealing.

4. Mixing

a. Totally drain the contents of the curing agent tin into the large base component tin. Using a hand held, slow speed drill (300 to 500 rpm) fitted with a Fosroc Sealant Mixing Paddle, mix for 1 minute. Stop and scrape around the top of the tin to remove any remaining curing agent. Continue to mix for 3 minutes until the material is thoroughly mixed.

b. In cold weather, Colpor 200PF mixes more easily if stored overnight at room temperature.

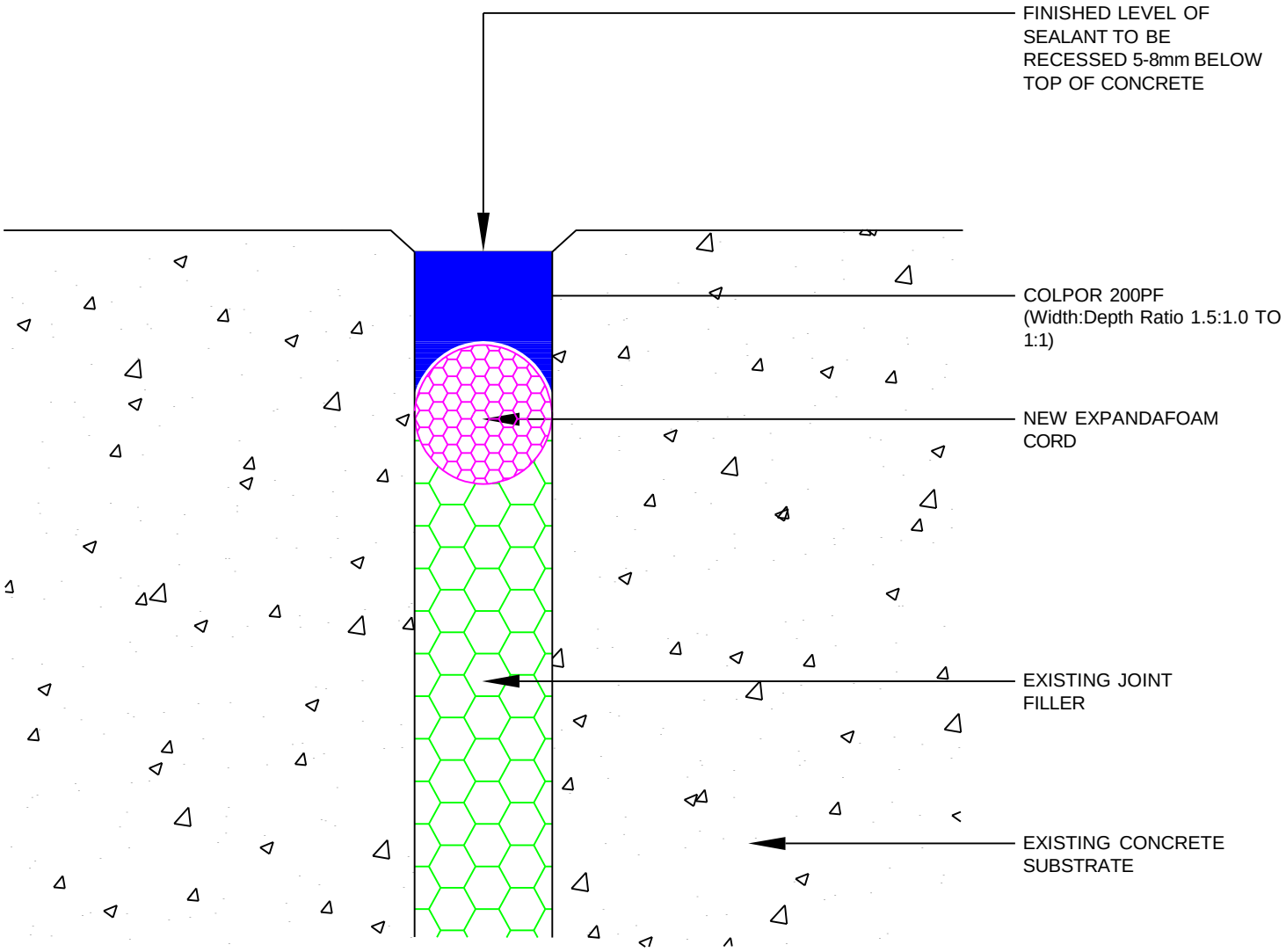
5. Application and finishing

a. Pour mixed sealant into a Fosroc G Gun after removing the nozzle end cap, pulling back the plunger rod. Replace end nozzle and gun into prepared joint. In joints of 25 mm and above, the mixed sealant may be poured directly from the tin by bending the side to form a pouring lip. Apply mixed sealant so that the finished level of the seal is recessed below the trafficked surface as specified

6. Cleaning

a. Clean equipment immediately after use with Fosroc Equipment Cleaner.

DRAWINGS



NOTE: REFER TO STANDARD DETAIL DRAWING CR03 FOR LOCATIONS WHERE THE JOINT ARRISES ARE DAMAGED AND REQUIRE REPAIR

PROJECT REFERENCES

constructive solutions

Creosote Facility Upgrade

Naas, Co. Kildare

Client
PDM

SECTOR
Commercial

DATE
June 2018

PRODUCTS
- Thioflex 555
- Colpor 200 PF
- Protectosil CIT
- Nitoflor Hardtop S

THE PROJECT

PDM, Ireland's leading supplier of pressure creosoted timber products are undergoing an expansion and upgrade of their storage and treatment areas located in Nass Co. Kildare. The works comprise the design and construction of new pathways and treatment of the creosote contaminants which include new sealed drainage systems, pumping stations, balancing tanks, lagoons, ground remediation, hard and soft landscaping, exposed and covered storage.

THE SOLUTION

Fosroc proposed their specialist, highly chemical resistant sealants for various joints in slabs, road and pathways, as well as in the production and storage areas. Colpor 200PF and Thioflex 555 and were used to seal the joints to provide waterproofing, chemical and hydrocarbon resistance.

In order to satisfy the requirements of the Environmental Protection Agency, it was important that the long term impermeability of both new and existing slabs and tanks was addressed. The concrete was treated with Protectosil CIT Corrosion Inhibitor to give long term protection to the steel by penetrating deep into the concrete.

Nitoflor Hardtop S was also worked into new horizontal surfaces during concrete placement to give extra strength, abrasion resistance and impermeability to these trafficked surfaces.

THE BENEFITS

Fosroc provided on site advice and technical back-up to the main contractor and were able to address all the sealing and protection requirements for this facility. This has resulted in timely consultations and delivery of product to site, whilst achieving the strenuous adherence and compliance to the specifications and requirements of the project design team.

Colpor 200PF Joints

Colpor 200PF Joints

T: +44 (0) 1827 262222 F+44 (0) 1827 262444 E: enquiryuk@fosroc.com
Fosroc Ltd, Drayton Manor Business Park, Coleshill Road, Tamworth, Staffordshire, B78 3XN, UK

CASE STUDIES

Thackeray Building, London

The Thackeray Building is a 5-storey block of residential flats in Herbrand Street dating back to the early 1900's, constructed of concrete and brick. Over the years the concrete elements have suffered from water ingress which has resulted in spalling and also corrosion of steel 'H' sections above the windows. Fosroc were able to supply a total solution package.

ICAIR, Sheffield

During construction the concrete to form the tanks had been poured to the wrong measurements and in order to correct the situation a product was required that could withstand the pressure and load from the stored water and gain a compressive strength similar to the parent concrete. Repairs were successfully carried out using Renderoc LA60.

A404M, Cannon Lane

Works included reconstruction of the joint edges and repairing defective concrete in the bridge deck with a clear objective to get the works completed quickly and reduce the closure of the very busy major route.
Patchroc 250 thick section repair mortar which exceeds the requirements of BS EN 1504, and Highways England was successfully installed minimising disruption and allowing a rapid return to service.

Central Station, Glasgow

When platform repairs were required at Central Station, Glasgow Fosroc's Paveroc pavement reinstatement mortar was selected due to its rapid strength gain which means it can accept pedestrian traffic at 12 hours. In addition to providing a rapid return to service of the platforms Paveroc's high strength, abrasion and weather resistance ensures that it will provide a durable repair.

Victoria Hospital, Blackpool

The Maternity Wing at Blackpool Victoria Hospital was constructed in the 1960's and over the years had been subjected to many environmental stresses, particularly due to its marine location. Fosroc provided a specification to repair the degraded concrete and bring a new lease of life to the structure using the Renderoc Repair System.

Oldbury Viaduct, M5 Midlands

Fosroc delivered a sustainable motorway repair solution using Renderoc LA60 meeting Highways England's quality standards. Fosroc successfully introduced innovations in product design, and in bulk supply, maintaining regular supply to site through a fully integrated supply chain and production process. This approach helped reduce costs, save time and enabled concrete repairs to be carried out effectively in a challenging environment.

Fosroc offers a full range of construction chemical solutions, helping to protect structures throughout the world. Please refer to our brochures, which include:

www.fosroc.com

FOSROC

constructive solutions