



# GROUTING INSTRUCTIONS FOR NATCEM DW

## Description

NATCEM DW is a ready to use void filling grout that is resistant to chloride penetration, consisting of a blend of Natural Cement binder, specially selected dried graded aggregates, all passing a 2mm sieve and retarders. The grout will effectively displace water with excellent anti-washout properties and is virtually non-shrink.

## Uses

- Void Filling
- Underwater Application
- Direct Contact with Potable Water
- Coastal Environments
- Wastewater Environments
- Slipways
- Culverts
- Tunnels
- Rivers & Canals

## Properties

- Fast setting with Rapid strength gain
- Sets Underwater
- Anti-washout
- DWI Reg.31 Approved
- Virtually non-shrink
- Excellent resistance to pure water and sulphated water
- High chemical resistance
- Resistant to chloride penetration
- Can be used in freezing temperatures
- Environmentally friendly & low carbon footprint
- Contains no chemical additives
- Only 1-hour curing period required after set
- No shelf life

## Surface Preparation

Do not use on frozen or over heated substrates (outside the range of 0°C - 30°C).

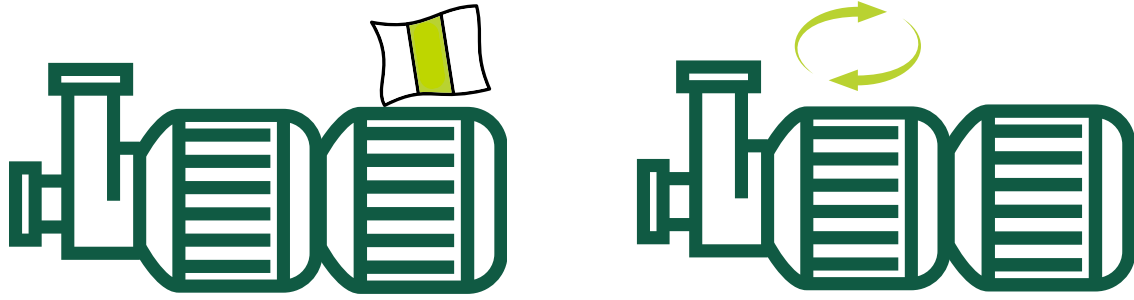
Prepare the surface in advance an adequate key. Concrete surfaces to which the NATCEM DW will be applied must be clean, free from dust and loose particles and be thoroughly dampened. Any adhesion reducing substances such as oil, paint, bitumen, grease, or laitance must be removed prior to application.

## Mixing

The use of conventional mixing machines or a mechanically powered grout mixer is advised to achieve optimum results. Always place water in the mixing container first and then add the NATCEM DW. It is essential that machine mixing capacity and labour availability is adequate to enable the grouting operation to be carried out continuously.



Measure accurately 4 litres of water for each 25 kg bag of NATCEM DW into the mixer. Slowly add the NATCEM DW whilst mixing continuously. When all the powder is added mix continuously for 5 minutes ensuring a smooth even consistency is obtained. Fluidity will only develop with sufficient mixing and will increase as mixing takes place. Do not place or pump until the desired consistency is achieved. If greater fluidity is required a total of 4.5L of water may be added.



Exceeding this ratio will lead to lower strength, longer setting time and the risk separation or surface cracking. In cold weather the set can be accelerated using warm water. In warm weather the set can be extended by using NATCEM SETTING RETARDER (see separate product data sheet).

Please contact a member of our Technical Team on 01226 381133 if further advice or clarification is required.

## Application

When used for grouting NATCEM DW can be poured or pumped. For applications where the product is required to travel or installed into complex details a vibrating poker should be used to assist flow.

The product has a minimum application thickness of 10mm and this should always be maintained, ensuring no feathering. When installed horizontally or placed in shuttering, there is no maximum depth the product can be installed. Protect the finished surface from direct sunlight or wind until setting is complete.

## Curing

Once the NATCEM DW has set, allow at least 1 hour curing before applying any surface coating or covering. After the product has fully set, a minimum curing time of 1 hour must elapse before returning to service.

## Manufactured by:



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