



NATCEM D

Description

NATCEM D is a dry pre-blended grout consisting of a blend of natural cement based binder and retarders resistant to chloride penetration.

Uses

- Waterproof grout
- Grouting during repairs to sewers
- Controlled soil stabilisation grouting
- Void filling
- Work around the sea
- In contact with portable water
- Wherever pollution or chemical attack is likely
- Resistant to chloride penetration.

Properties

- Excellent adhesion
- Low shrinkage
- Excellent resistance to pure water & sulphated water
- Excellent resistance to aggressive chemicals
- Very good cohesion & mixing
- Fine compact surface
- No curing membrane necessary
- Can be used in wet conditions
- Can be used under water
- Controlled setting
- Fine particle size for greater penetration
- Set down to zero
- Can be used in contact with potable water
- Can be injected in to artesian water bearing strata, as it contains no material to leach out into the aquifer.





NATCEM D

Method of use

Preparing the surface

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

Mixing

For optimum results mix using conventional mixing machines.

Application

General

Place the material as quickly as possible after mixing using traditional methods. Once setting has started DO NOT attempt to remix, as this will cause the mechanical properties in particular strength and adhesion to be lost.

Setting times

NATCEM D is designed to commence setting at 35 minutes and finish setting at 45 minutes at 20°C. In winter NATCEM D can be used down to 0°C. The set will be slower but can be accelerated by using warm water. In very hot temperatures the set will be faster and can be slowed by using cold water. Setting times can be adjusted to suit the clients requirements.

Cleaning

NATCEM D should be removed from tools and equipment with water immediately after use.

Storage

NATCEM D is packaged in a polythene inner bag re-sealable tie with a stitch sealed woven polypropylene outer bag that should be stored in dry conditions and will last for at least twelve months.

Yield

Mixed with 40% water a 25kg bag will produce approximately 10 litres of finished grout.

How to specify

NATCEM D shall be mixed and used all strictly in accordance with the manufactures instructions.

Precautions

We strongly recommend the use of GLOVES, GOGGLES and MASK. Please see MSDS sheet for full details.

Setting time & strength gain at 50% relative humidity

	Start Set	End Set
5°C	60 Min	65 Min
15°C	40 Min	55 Min
20°C	35 Min	45 Min

Based on a water cement ratio of 40%

Start Set	35 Min	at 20°C
End Set	45 Min	at 20°C
	Flexible Strength (Mpa)	Compressive Strength (Mpa)
7 Days	0.8	4
21 Days	1	4.5
Strength continues to develop thereafter.		



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