

# GROUT 105

## DESCRIPTION

**GROUT 105** is a dry pre-blended grout that is resistant to chloride penetration consisting of a blend of unique potable water approved natural cement based binder, specially selected dried graded aggregates all passing a 500 micron sieve and retarders. **GROUT 105** can be used as a rod anchorage grout, for grouting under base plates, setting holding down bolts, as an injection grout for waterproofing, ground stabilisation, void filling, grouting to sewers, as a self levelling screed, for fine moulding and areas where the resistance to chemicals and sea water is required.

## 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.

## USES

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# METHOD OF USE

## PREPARING THE SURFACE

Do not use on frozen or over heated substrates (outside the range of 0° - 30°C). Prepare the surface in advance to provide an adequate key. On glazed brickwork the joints should be raked out and the surface bush hammered to form a key. The surface to which the **GROUT 105** is applied should be clean, free from dust and thoroughly dampened. Ensure that a 3mm minimum thickness of material is obtained.

## MIXING

To no more than 3.5 litres of clean water per bag, gradually add whilst mixing the **GROUT 105**. If one bag or less is to be used it can be mixed with a rose bud type paddle attached to an electric drill (900 rpm, 1000 W). Mix vigorously for at least 2 minutes **after adding all the mixture to the water**. **GROUT 105** is designed to give a fluid mix but this only develops after sufficient mixing. The mix will appear dry at first. Continue mixing until fluidity develops.

For optimum results mix using conventional mixing machines.

## APPLICATION

### GENERAL

Place the material as quickly as possible after mixing using traditional tools. A 3mm minimum thickness of the material is always necessary. Do not apply additional water to the surface during finishing as this may cause surface cracking. Once setting has started **DO NOT** attempt to re-mix or to smooth the surface, as this will cause the mechanical properties in particular strength and adhesion to be lost.

## SETTING TIMES

**GROUT 105** is designed to begin to set at 45 minutes and finish setting at 55 minutes at 20°C. In winter **GROUT 105** 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 but can be slowed by using cold water.

## CLEANING

**GROUT 105** should be removed from tools and equipment with water immediately after use.

## STORAGE

**GROUT 105** is packaged in a polythene inner bag with a re-sealable tie within a stitch sealed woven polypropylene outer bag, which should be stored in dry conditions and will last for at least six months.

## YIELD

Generally 960 kg / m<sup>3</sup> of powder with a water / powder ratio of 148% will result in a bulk density of 2010 kg / m<sup>3</sup>.

## HOW TO SPECIFY

**GROUT 105** shall be mixed and used all strictly in accordance with the manufacturer's instructions.

<b>RESULTS</b>		
Temperature of materials	<b>5°C</b>	<b>20°C</b>
Spreading at ATM cone (static)	240 - 260 mm	240 - 260 mm
Pot life	45 mins	45 mins
Setting time	57 mins	55 mins
<b>COMPRESSIVE STRENGTH (Mpa)</b>		
3 hours air	21	20
1 day water	37	45
7 days water	/	69
28 days water	/	86
<b>FLEXURAL STRENGTH (Mpa)</b>		
3 hours air	3.9	4.3
1 day water	/	5.8
7 days water	/	9.8
28 days water	/	11.8
<b>DRYING</b>		
24 hours	3.8% relative humidity	
<b>SHRINKAGE WHEN DRYING (µM/M)</b>		
28 days	/	880

These data and results are given as examples only and are only accurate in relation to the aggregates used

## PRECAUTIONS

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

## **MANUFACTURER & TECHNICAL SUPPORT**

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