



TEKNODURE TS-F

RAPID SETTING CEMENTITIOUS GROUT

DESCRIPTION

Teknodure TS-F is a rapid setting, non-shrink, high strength cementitious grout designed for use in areas where time is at a premium. This grout has high flow characteristics to achieve high void penetration and levelling with no bleed and zero shrinkage.

USES

Teknodure TS-F has been specifically designed for fast reinstatement and installation of anchors, base plates and precast units. The grout can also be used in the repair of concrete structures and in marine and tidal environment. The grout has excellent bond strength to concrete and steel substrates.

ADVANTAGES

- Rapid return to service
- High ultimate strength, and non-shrink.
- Used for grouting sections from 20mm to 100mm or up to 300mm when bulked out by 35% with a 6-10mm clean aggregate.
- The minimum thickness when bulked out with 6-10mm aggregate is 35mm. Without the additional aggregate it can be placed at 20mm minimum.
- Chloride free.
- High fluidity – can be pumped or poured.

Property	Value
Setting Time	Initial – 10mins Final – 15mins
Water/ Solid Ratio	0.15
Compressive Strengths	1hr - 12 MPa 1.5hrs - 20 MPa 2hrs – 25 MPa 24hrs – 40 MPa 7 Days – 52 MPa 28 Days – 70 MPa

YIELD

One 25kg bag will produce approximately 12 litres of mixed grout.

MIXING INSTRUCTION

Teknodure TS-F should be mixed using cool, clean water. For best results use a high shear or slow speed drill and paddle mixer.

25kg of the grout powder should be added carefully to 3.75litres of water, progressively mixing until a fluid grout consistency is achieved.

Small quantities can be mixed by hand, care being taken to accurately measure the water.

Once mixed, the material must not be reworked, or extra water added.

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APPLICATION PROCEDURE

Teknodure TS-F can either be poured or pumped into position. Due to the relatively short pot life pumped Operations must be executed quickly particularly in warm weather conditions.

For best results the grout should be placed immediately on completion of mixing. Ensure all surfaces with which the grout will come into contact are clean and dust free.

Ideally, concrete substrates should be thoroughly soaked for several hours prior to the grout being applied to reduce suction.

Permeable concrete should be treated with a suitable concrete primer such as Epoprime AC. Shuttters must be impermeable to the passage of water and both strong enough and sufficiently supported to contain the placed grout. When gravity placed, sufficient hydrostatic head must be given, and grout volume maintained to enable the material to flow completely through the void to be filled from one side of shutter only. A minimum 50mm head is recommended. Immediately prior to placement all excess water should be removed. Any grout exposed to wind or drying conditions should be suitably protected, preferably by coating with a wax-free Curing Agent.

Any grout that is likely to be subject to low temperature immediately after placing or during its early strength development should be protected by covering with hessian or other insulative material. For concreting in cold weather reference should be made to BS8110 Pt. 1 Section 6.

PACKAGING AND STORAGE

Teknodure TS-F is available in nominal 25kg sacks, palletised and shrink wrapped.

Palletised Teknodure TS-F should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis.

Teknodure TS-F should be stored in dry clean conditions between 8°C and 30°C. When stored in unopened bags Teknodure TS-F will have a shelf life of 12 months.

HEALTH & SAFETY

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk to serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 -Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children



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