

# TEKNODURE TS

## Thick-Section Cementitious Grout

### DESCRIPTION

TEKNODURE TS is a cementitious thick section non-shrink grout which incorporates a specially graded aggregate which makes it suitable for application in thicker sections than standard construction grouts. It is a highly fluid grout which is easily placed for grouting sections from 75 -500mm in one application.

### USES

TEKNODURE TS is used for grouting large gaps beneath structural elements where a high flow grout is required. Applications include grouting beneath steel base plates and large bolt pockets.

### ADVANTAGES

- Excellent flow properties.
- Chloride free.
- Good adhesion to substrate.
- Suitable for hand and pump placement.
- High compressive strength.
- Suitable for placement in thick sections.

Property	Value
Compressive Strength	16N/mm <sup>2</sup> @ 1 Day 47 N/mm <sup>2</sup> @ 7 Days 65 N/mm <sup>2</sup> @ 28 Days
Density	1910kg/m <sup>3</sup>
Flexural Strength	3Nmm <sup>2</sup> @ 1 Day 8 N/mm <sup>2</sup> @ 7 Days 8.5 N/mm <sup>2</sup> @ 28 Days
Na <sup>2</sup> O	< 2Kg/m <sup>3</sup>
Flow Rate (Time taken to flow 750mm using DTP flow through @ 20°C)	9 seconds on mixing
Setting time	Initial – 4hrs Final – 6hrs
Water / Solid Ratio	0.16

### COMPLIANCE

TEKNODURE TS complies with highways agency standard BD 27/86 for use on highway structures and bridges.

### PROCEDURE

**Surface Preparation:** Formwork should be constructed around the area that is to be grouted. The form work should be created with a head to ensure that the grout will flow beneath the unit that is being grouted without any voids. Large base plates may require vent holes to be drilled at appropriate intervals to prevent the any trapped air which would result in voids forming beneath the base plate. The substrate should be thoroughly saturated with water prior to the application of the grout. This will ensure that the freshly placed grout remains fluid and excessive water suction does not occur. However, it is important to ensure that no surplus water is remaining prior to placement of the grout.

**Mixing:** TEKNODURE TS should be mixed with maximum 4ltrs of clean water. The water should be added to a suitable mixing vessel before slowly adding the TEKNODURE TS powder to the water whilst continually mixing with a suitable paddle mixer. Care should be taken to ensure that the paddle mixer is set to a slow speed to prevent the grout from being mixed too fast which may result in loss of fluidity. The grout should be mixed until a uniform consistency is achieved.

**Application:** TEKNODURE TS can be pumped or poured and should be placed within 15 mins of mixing. Continuous placement to a pre-saturated substrate is important pouring from just one side of the form work, to prevent any air entrapment occurring.

**Curing:** Exposed sections of TEKNODURE TS should be cured using PREMCRETE CUREAID 1000 in accordance with good concrete practice.

**Equipment Cleaning:** Clean tools and equipment immediately using clean water.



Revision date: 23/1/23

### PACKAGING & COVERAGE

**Pack Size:** TEKNODURE TS is supplied as a 25kg pack.

**Coverage:** 1 x 25kg pack will yield approximately 12ltrs of mixed material.

### STORAGE & SHELF LIFE

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

### HEALTH & SAFETY

See separate material safety datasheet.