



TEKNODURE GP

General Purpose Non-Shrink Grout

DESCRIPTION

TEKNODURE GP is a cementitious non-shrink grout which is mixed with water to produce a flowable grout with a good compressive strength. It is a fluid grout, suitable for placement under structural elements and is designed for use in thicknesses between 10mm and 100mm. Its non-shrink properties ensure that plastic settlement and shrinkage are negated. TEKNODURE GP is free from chlorides, making this suitable for application in contact with steel.

USES

TEKNODURE GP is designed as a non-shrink cementitious grout for use in applications where a good compressive strength is required. Applications include, grouting beneath stanchion bases, pre-cast concrete units, underpinning and void filling.

ADVANTAGES

- Good flow characteristics.
- Good compressive strength.
- Chloride-free.
- Non-shrink.
- Complies with EN1504 pt 3 Class R4

Property	Typical Value at 0.16 W/P – 4ltrs water per 25kg Bag.	Typical Value at 0.18 W/P – 4.5ltrs water per 25kg Bag.
Compressive Strength	30 MPa @ 1 Day 54 MPa @ 7 Days 71 MPa @ 28 Days	25 MPa @ 1 Day 50 MPa @ 7 Days 65 MPa @ 28 Days
Density	2285 kg/m ³	2245 kg/m ³
Yield per 25kg Bag	12.7 ltrs	13.2 ltrs
Pot Life	Approximately 30 mins @ 20°C	
25kg bags required per m ³	79	76

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 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 GP should be mixed with a maximum of 4.5ltrs of clean water. For best results, mix with 4ltrs of clean water. The water should be added to a suitable mixing vessel before slowly adding the TEKNODURE GP 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 to fast which may result in loss of fluidity. The grout should be mixed until a uniform consistency is achieved. TEKNODURE GP may be mixed with a 6 mm round aggregate to bulk out the grout for use in applications thicker than 100mm.

Application: TEKNODURE GP should be placed within 15 mins of mixing. Continues 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 GP should be cured using PREMCRETE CUREAID 1000W in accordance with good concrete practice.

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

PACKAGING & COVERAGE

Pack Size: Clean tools and equipment immediately using clean water.

Yield: A 25Kg pack will yield approximately 13 litres of mixed material.

STORAGE & SHELF LIFE

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

HEALTH & SAFETY

See separate material safety datasheet.



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www.premcrete.com | 02380 276166 |
sales@premcrete.com | 44 Macadam Way,
West Portway, Andover, Hampshire, SP10
3XW

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