TECHNICAL DATA SHEET

TEKNODURE GP

General Purpose Non-Shrink Grout



PREMCRETE

TEKNODURE GP



DESCRIPTION

TEKNODURE GP is a cementitious non-shrink grout that is mixed with water to produce a flowable grout with high compressive strength. It is suitable for placement beneath structural elements and is designed for use in applications with grout thicknesses between 10mm and 100mm. Its non-shrink properties minimise plastic settlement and shrinkage, ensuring full load transfer and long–term stability. TEKNODURE GP is chloride-free, making this suitable for use in contact with steel reinforcement and structural steel.

USES

TEKNODURE GP is a non-shrink cementitious grout designed for applications requiring high compressive strength and dimensional stability. 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

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value	
Compressive Strength	N/A	4.0ltrs water per 25kg @ 0.16 W/P	30 MPa @ 1Day 54 MPa @ 7 Days 71 MPa @ 28 Days
		4.5ltrs water per 25kg @ 0.18 W/P	25 MPa @ 1Day 50 MPa @ 7 Days 65 MPa @ 28 Days
Density	N/A	4.0ltrs water per 25kg @ 0.16 W/P	2285 kg/m³
		4.5ltrs water per 25kg @ 0.18 W/P	2245 kg/m³
Yield per 25kg	N/A	4.0ltrs water per 25kg @ 0.16 W/P	2285 kg/m³
		4.5ltrs water per 25kg @ 0.18 W/P	2245 kg/m³
Pot Life	N/A	4.0ltrs water per 25kg @ 0.16 W/P	Approx. 30 mins @ 20°C
25kg bags required per m³	N/A	4.0ltrs water per 25kg @ 0.16 W/P	79 bags required
		4.5ltrs water per 25kg @ 0.18 W/P	76 bags required

TEKNODURE GP

INSTALLATION PROCEDURE

Surface Preparation

Formwork should be constructed around the area to be grouted and sealed to prevent grout leakage. The formwork should incorporate a suitable grout head to ensure continuous flow of grout beneath the base plate or structural element being grouted. Large base plates may require vent holes to be provided at appropriate locations to allow trapped air to escape and prevent the formation of voids beneath the plate. Prior to grouting, the substrate should be thoroughly saturated with clean water. This will help prevent excessive water loss from the freshly placed grout and maintain its flowability. Any free-standing or surplus water must be removed before grout placement.

Mixing

TEKNODURE GP should be mixed with a maximum of 4 litres of clean water per 25 kg bag. For optimum results, add the measured water to a clean mixing vessel before gradually introducing the TEKNODURE GP powder while continuously mixing with a suitable paddle mixer. Mixing should be carried out at a slow speed to minimise air entrainment and prevent loss of fluidity. Continue mixing until a smooth, uniform, lump-free consistency is achieved.
For applications requiring grout thicknesses greater than 100 mm, TEKNODURE GP may be extended with clean 6 mm rounded aggregate.

Application

TEKNODURE GP should be placed within 15 minutes of mixing. The substrate should be pre-saturated and brought to a saturated surface-dry (SSD) condition prior to grout placement. Grout should be poured continuously from one side of the formwork only, allowing it to flow beneath the base plate or structural element and displace air ahead of it. Continuous placement is essential to prevent air entrapment and the formation of voids.

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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