



TEKNODURE PC

Non-Shrink Flowable Precast Grout

DESCRIPTION

TEKNODURE PC 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 both pouring and pumping application. Teknodure PC is designed for use in thicknesses between 10mm and 100mm and can be bulked out with a 6mm clean, round aggregate for thick-section applications. Its' properties ensure the grout is non-shrink and plastic settlement is negated. TEKNODURE PC is free from chlorides, making it suitable for application in contact with steel.

USES

TEKNODURE PC is designed as a non-shrink cementitious grout for use in applications where a flowable grout and good compressive strength is required. Applications include precast column erection, beneath baseplates, underpinning and void filling.

ADVANTAGES

- Complies with BS EN 1504-3 Class R4
- Chloride-Free.
- Good compressive strength gain.
- Non-shrink

Property	Typical Value at 0.16 W/P – 4ltrs water per 25kg Bag.
Compressive Strength	30MPa @ 1 Day 50MPa @ 7 Days 70MPa @ 28 Days
Density	2285 kg/m ³
Yield per 25kg Bag	13ltrs
Pot Life	Approximately 30-40 mins @ 20°C
Flexural Strength	3.5MPa @ 1 Day 6.5MPa @ 7 Days 7MPa @ 28 Days
25kg bags required per m ³	77

PROCEDURE

Surface Preparation: All surfaces must be sound, clean and free from any loose dust / dirt / contaminants. The substrate should be prepared by mechanical means such as high pressure jet washing / grit blasting etc. and should be saturated with clean water prior to application. There should be no standing water. Formwork should be erected around the area that is to be grouted. The formwork should be created with a head / hopper to ensure that the grout will flow beneath the unit that is being grouted, void-free.

Mixing: TEKNODURE PC should be mixed with a maximum of 4.5ltrs of clean water. For best results, mix with 4ltrs of clean water per 25kg bag. The water should be added to a suitable mixing vessel before slowly adding the TEKNODURE PC powder to the water whilst continually mixing with a suitable high shear 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. TEKNODURE PC may be mixed with a 6 mm round aggregate to bulk out the grout for use in applications thicker than 100mm.

Application: TEKNODURE PC should be placed within 15-20 mins of mixing. Continuous placement to a pre-saturated substrate is important pouring from just one side of the formwork, to prevent any air entrapment occurring. Teknodure PC Grout should only be used down to a minimum temperature of 5°C and maximum 30°C.

Curing: Exposed sections of TEKNODURE PC 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 PC should be stored off the ground in moisture and frost free conditions at reasonable temperatures not exceeding 25°C. When stored in unopened bags Teknodure PC will have a shelf life of 12 months.

HEALTH & SAFETY

See separate material safety datasheet.



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