

PENTENS T-806

Product Data Sheet

High Performance Pumpable Non-Shrink Grout

Description

PENTENS T-806 High Performance Pumpable Non-Shrink Grout is a pumpable and ready-to-use rich blend of cements and shrinkage compensating agents, requiring only the addition of water to produce a free-flowing and high strength grout.

Uses

PENTENS T-806 is suitable for use in grouting works with clearance of 6mm or more, such as:

- Machine or equipment foundations
- Structural columns
- Cable ducts
- Concrete anchors
- Honeycomb repair
- Crane rails
- Concrete anchors
- Cavities repair
- Recesses

Advantages

PENTENS T-806 is an economical and easy-to-use material requiring only the simple addition of water.

Other beneficial properties are:

- Easy to mix and use.
- Low permeability.
- Dense and non-shrink (1 step expansion).
- Excellent bond strength.
- Chloride free.
- Pumpable.
- Non-toxic.
- Rapid strength development.
- Excellent work time.
- Good flow.

Technical & Physical Data

Form	Premixed Powder	
Colour	Natural Grey	
Aggregate Size	1.3 mm maximum	
Compressive Strength (n/mm ²)		
Water Content (Lts)	3.8	4.1
1 day	> 35	> 30
3 days	> 60	> 50
7 days	> 75	> 60
28 days	> 85	> 75
Density	2.10 g/cm ³	
Water Absorption % (ASTM C 413)	< 1.0%	
Tensile Strength (N/mm ²) (ASTM C 190)	3.5	
Initial Set Time	+/- 45 min	
Expansion (ASTM C 827)	0.1 ~ 2%	
Open Time (mins)	20	
Mixing Ratio Guide	Consistency	Water (litre)
	(per 25kg of Grout)	
	Flowable	4.0 – 4.4
	Pourable	3.6 – 4.0
Application Criteria (per grout)	Max thickness : 55mm	
	Min thickness : 6mm	
Shelf Life / Storage	12 months in unopened original bags and when stored in a dry, cool place.	
Packaging	25kg /bag	

Important Notes

1. Apply to only clean surfaces which should be free from water and leakages.
2. Minimum ambient and substrate temperature is 5°C.

Typical Yield

	Flowable Consistency	Pourable Consistency
PENTENS T-806	74 x 25 kg bag	76 x 25 kg bag
Water	310 litres	303 litres
Volume Mortar	1 m ³	1 m ³

Instruction for Use

Surface Preparation

Concrete surfaces should be clean, sound and free from oil, grease, laitance and loose adhering particles.

Metal surfaces (iron and steel) should be free from scale, rust, oil and grease. All adsorbent surface must be well saturated with clean water but free from surface water prior to the application of PENTENS T-806.

Mixing

Place about 80% of the premeasured clean water (refer to data sheet) into a clean container and gradually add the whole bag of PENTENS T-806 while continuously mixing. Add remaining water until the desired consistency is obtained. Mix for 3 to 4 minutes with a slow speed drill (maximum 500 RPM).

Application

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. Grout should be placed within 25 minutes of mixing. The grout is then poured immediately into the prepared formwork, pour continuously from one side of the formwork until the grout appears at the opposite side of the grout area.

When carrying out baseplate grouting, ensure sufficient pressure head is maintained for uninterrupted mortar flow. For formwork repair, the prepared formwork must be firmly in place and kept watertight.

When placing grout over a large area, it is important to maintain a continuous flow throughout. Work sequence must be properly organized to ensure an uninterrupted flow. For sections thicker than 75mm or for large grouting area, it is necessary to mix the PENTENS T-806 with graded 10mm silt free aggregates to minimize temperature rise generated

during curing stage. The quantity of aggregates should not exceed 1-part aggregates to 1-part PENTENS T-806 by weight. Other precautions such as the use of chilled water, insulation of the formwork or baseplate may be required. Please contact PENTENS Technical Department for assistance.

Curing

If formwork type repair is used, leave the formwork in place for at least 72 hours. Upon removal of the formwork, apply wet burlap with plastic or chemical curing agent to the exposed surface or other approved curing methods.

Cleaning

Clean all tools and equipment with water immediately after use. Hardened mortar can only be mechanically removed.

Safety

Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. In case of contact with eyes, rinse thoroughly with plenty of water for 15 minutes and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin cleanser followed by plenty of soap and water. Do not use solvent. Material releases acetic acid during cure. Ensure adequate ventilation when using these products.

PENTENS



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