PENTENS T-306

Bonding Mortar & Reinforcement Protection

Product Data Sheet

Description

PENTENS T-306 is a one-component, cementitious, polymer-modified mortar containing silica fume and corrosion inhibitors.

Uses

As a reinforcement treatment for preventing continued corrosion in concrete and as a bonding bridge for concrete repair using the PENTENS concrete repair system.

Advantages

- One component system, requiring only the addition of water.
- Easily applied by brush, roller or spray.
- Excellent bonding to steel and concrete.
- Highly impermeable to water and chlorides.
- Can be applied on damp substrates.
- High mechanical strengths.
- Non-toxic.
- Alkaline passivating effect due to high cement content.
- Contains corrosion inhibitors.

Technical & Physical Data

Colour	Grey
Density	2.00 kg per liter (freshly mixed mortar)
Mixing Ratio	5.0 to 5.5 liter of water per 25kg bag
Application Thickness	Minimum: 1mm Maximum: 3mm
Application Temperature	Minimum: 5°C Maximum: 40°C
Mechanical Strengths (28 days at 25°C)	Compressive: 50 N/mm² Flexural: 7 N/mm²
Bond Strength	> 1.5 N/mm² (on prepared concrete)
Pot Life (25°C)	~ 1 hour
Shelf Life	12 months in unopened original packaging when stored in a dry, cool place
Packaging	25 kg /bag

Important Notes

1. Minimum ambient and substrate temperature is 5°C.
2. Apply to only clean and sound substrates. Surfaces should be well dampened but free from water and leakages.

Disclaimer. All representations and recommendations set forth are given in good faith and to the best of our knowledge. However due to varying conditions and applications, the buyer shall conduct its own tests of this product before use. Under no circumstances will the manufacturer be liable for any loss or damages caused by incorrect usages. The sale of this product shall be on terms and conditions set forth on Pentens order acknowledgement.

Instruction for Use

Surface Preparation

Precise and efficient surface preparation is essential to achieve the high adhesive qualities of PENTENS T-306

Concrete:

Substrate must be sound, clean and free from oil, grease and surface contaminants. All loose materials and surface laitance must be removed. For large areas, grit or grit-water blasting, scarifying or scrabbling is effective. Special care must be taken to ensure that the substrate does not have any coatings, such as a curing membrane, that will prevent the PENTENS T-306 from penetrating the surface.

Steel:

Reinforcement must be suitably wire-brushed or water/grit blasted to provide a surface free from rust, oil, grease or any other contaminants.

Mixing

PENTENS T-306 should be mixed in small amount for immediate application.

Fill sufficient clean water in a small clean container. Add PENTENS T-306 to the water and hand-mix thoroughly with a spatula until a thick "slurry" consistency is achieved. Always ensure that there are no lumps in the mix. If the mix has thickened due to delayed application, DO NOT dilute further with water. This mix should be discarded.

Application

Concrete:

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated but without surface water. This condition is referred to as saturated surface dryness. Any cement slurry or dust produced during surface preparation must be removed. The use of a "fan" shaped water jet is ideal. A coat of freshly mixed slurry of PENTENS T-306 should then be brush-applied to the substrate, covering it completely, followed immediately by a "wet on wet" application of the patch repair mortar. (e.g. PENTENS HP Mortar or PENTENS Fast-1)

Reinforcement:

Two coats of PENTENS T-306 should be brush applied to the prepared steel prior to the application of the patch repair mortar. Care should be taken to ensure that the back of the reinforcement is also coated.

Cleaning

Remove unhardened PENTENS T-306 from tools and equipment with water. Hardened material can only be removed mechanically.

Safety

PENTENS T-306 contains cement and is alkaline. Suitable precautions should be taken to minimise direct contact with skin. Wear gloves and goggles when using the material. If the material gets into the eyes, rinse immediately with clean water and seek medical advice it irritation persists.

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