

PENTENS T-309 FLEXIBOND

Product Data Sheet

Multi-function Bonding Agent

Description

PENTENS T-309 is a one-component, acrylic-based liquid resin mixed with normal Portland cement or white cement. It is used as a flexible adhesive, patching mortar and the synthetic stucco with alkali-resistant fiberglass reinforcing mesh in PENTENS Thermal Insulation System.

Uses

PENTENS T-309 FLEXIBOND can be applied to only sound, clean, dry, well-prepared and frost-free surfaces. After mixing with cement, it may be used:

- As a base coat for PENTENS Thermal Insulation System to embed fiberglass reinforcing mesh onto the insulation board
- As a flexible adhesive for tiling and glazing
- As a flexible patching mortar

Advantages

- Easy to use, only mix with cement on site.
- Excellent adhesion and durability.
- Crack resistance.
- Good flexural strength.
- Good impact strength.
- Freeze-thaw resistance.
- Vapor permeable.
- Low alkalinity.

Technical & Physical Data

Form	Liquid
Color	Milky white
Mixing Ratio (by weight)	
T-309 FLEXIBOND	1
Cement	1
Working Time (at 25°C)	40 minutes
Drying Time (at 25°C)	6 hours
Curing Time (at 25°C)	24 hours
Bond Strength on Concrete (7 days)	10 kgf/cm ²
Bond Strength on Polystyrene Board	2 kgf/cm ²
Consumption (exclusive of cement)	2 kg/m ²
Shelf Life	12 months when unopened in original packaging and stored in a dry, cool place.
Packaging	20 kg /pail

Note: Consumption may vary depending on surface conditions and application technique.

Important Notes

1. Minimum ambient and substrate temperature is 5°C during application and drying period.
2. Do not apply on weather-exposed horizontal areas or areas where immersion in water may occur.
3. Do not apply as a finishing coat.
4. Do not apply directly on wood surfaces.

Instruction of Use

Surface Preparation

Substrates: All the substrate surfaces must be clean, free from grease, oil, laitance, dirt and contaminants which might affect adhesion. It is recommended to give substrate a rough or light-broom finish for better bonding strength.

Insulation board: Insulation board must be well protected, clean, dry and free from all bond-inhibiting materials and rasped if necessary before installation.

Mixing

PENTENS T-309 FLEXIBOND should be mixed thoroughly with normal Portland cement or white cement by using a low-speed electrical or pneumatic power stirrer. Mixing time is minimum 3-4 minutes until a homogeneous mix is achieved.

Mixing Ratio:

PENTENS T-309 FLEXIBOND : 1
Cement : 1

Adjust mix if necessary by adding a small amount of clean water to achieve the desired texture finishing. Avoid re-tempering after mixing product.

For Tile Adhesive (TA-Bond 888):

PENTENS T-309 FLEXIBOND : TL-8L
TA-Bond 888 : 25kg

Application

As a base coat for PENTENS Thermal Insulation System:

Apply with spray equipment or manually with a stainless steel trowel to an approximate thickness of 3mm onto the insulation board. Work horizontally or vertically in strips of 1m and immediately embed fiberglass reinforcing mesh in the wet PENTENS T-309 FLEXIBOND by troweling from the center to the edges of the mesh. Each strip of mesh should overlap by a minimum of 100mm.

Avoid wrinkles in the mesh and smooth the base coat to eliminate trowel marks.

Minimum recommended thickness of the reinforced base coat is 1.5mm when dry.

Reapply additional base coat to completely cover the mesh as soon as the first coat is dry.

Cleaning

Remove unhardened PENTENS T-309 products from tools and equipment with water immediately after use. Hardened material can only be removed mechanically.

Safety

PENTENS T-309 FLEXIBOND contains cement and is alkaline. Suitable precautions should be taken to minimise direct contact with skin. Wear rubber gloves and goggles when using the material. If the material gets into the eyes, rinse immediately with clean water and seek medical advice if irritation persists.

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