

PENTENS T-007

Cement Modifier

Product Data Sheet



Description

PENTENS T-007 – 100% acrylic cement modifier is based on a proven 100% acrylic polymer design to improve the chemical, corrosion, moisture and salt resistance of cement renders. It is superior to more common PVA and SBR based modifiers because of its superior durability and resistance to hydrolysis. It has been specifically formulated for use in highly alkaline cement environments. Cement mortars based on PENTENS T-007 will adhere to a wide range of materials such as metals, timber, insulation foams as well as new and old concrete.

Uses

Not only used as the waterproofing primer, but also used as an additive in cement mortars, renders, patching/repair work, GRC panels and waterproof cementitious coatings.

Areas of application include:

- As a primer of water-based waterproofing/flooring works
- Repairs to drinking water and waste water concrete structures
- Repairs and resurfacing of factory floors, driveways
- New and old concrete bonding agent
- Angle fillets
- Multi-purpose adhesive

Advantages

- Increases durability of concrete and mortars
- Waterproof
- Suitable for use in contact with drinking water
- Resists acids, alkalis, fats & oils
- Increases abrasion resistance
- Increase tensile, flexural, impact & compressive strengths
- Can be applied in thin coats
- Excellent UV durability
- Promotes adhesion superior to PVA's & SBR's

Technical & Physical Data

| | |
|------------------------------|------------------------------------|
| Form | Emulsion |
| Appearance | Milky |
| Density (kg/ltr) | 1.01 |
| Solids content (%) | > 45 |
| Viscosity (Brookfield), (cP) | 3000 (approx.) |
| Shelf Life | 1 year when unopened and undamaged |
| Storage Condition | Store in a dry cool place |
| Packaging | 20kg pail 200kg drum |

Specifications for Mix Recommendation

Primer (0.2kg/m²)

| | |
|----------------|-----|
| PENTENS T-007: | 1 L |
| Water: | 3 L |

Slurry Coating (1mm)

| | |
|----------------------------|------|
| Portland cement: | 2 kg |
| Silica Sand (Mesh 50/100): | 1 kg |
| PENTENS T-007: | 2 L |

Waterproof Render (3~5mm)

| | |
|----------------------------|--------|
| Silica sand (Mesh 30/100): | 135 kg |
| Portland cement: | 45 kg |
| PENTENS T-007: | 10 L |
| Water: | 20 L |

Light Duty Floor Screed (3~5mm)

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|---------------------------|--------|
| Silica sand (Mesh 30/60): | 135 kg |
| Portland cement: | 45 kg |
| PENTENS T-007: | 10 L |
| Water: | 20 L |

Heavy Duty Granolithic Topping (3~5mm)

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|---------------------------|--------|
| Granite chips (3mm): | 150 kg |
| Silica sand (Mesh 30/60): | 150 kg |
| Portland cement: | 100 kg |
| PENTENS T-007: | 9 L |
| Water: | 72 L |

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.

Product Data Sheet



Green Label Test Data

| | |
|---|--------------|
| Heavy Metals: (EPA 3025 / EPA 6010B : ICP) | |
| a. Cadmium (Cd) | Not Detected |
| b. Lead (Pb) | Not Detected |
| c. Total Chromium (Cr) | Not Detected |
| d. Mercury (Hg) | Not Detected |
| Volatile Organic Compounds (ISO 11890-2) (g/L) | |
| | 17.67 |
| Total Halogenated Organic Solvent (ISO 11890-2) (%) | |
| | Not Detected |
| Total Aromatic Organic Solvent (ISO 11890-2) (%) | |
| | Not Detected |
| Epichlorohydrin (ISO 11890-2) (%) | |
| | Not Detected |
| N-Methyl Pyrrolidinone (ISO 11890-2) (%) | |
| | Not Detected |
| Formaldehyde (High Performance Liquid Chromatography) (%) | |
| | Not Detected |
| Alkyl Phenol Ethoxylate (LCMS-MS) (%) | |
| | Not Detected |
| Flash Point (ASTM D3828-07a) (°C) | |
| | >61 |

Instruction for Use

Surface Preparation

1. All the surfaces must be clean, free from grease, oil, laitance, and remove all the dirt and contaminants, which might affect adhesion. The impurity outside the structure body should be cleaned thoroughly.
2. Substrate should be primed with a 1:3 mixture of PENTENS T-007 and water.
3. Brush on at the approximate rate of 0.2kg/m².
4. Allow to become tacky then apply topping.
5. For porous surfaces prime with a slurry coat.
(refer Specifications for mix recommendation)

Application

Apply concrete and mortars as per normal practice.

Cleaning

Tools and equipment just can be clean with clean water immediately after use.

Safety

Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. In case of contact with eyes, wash thoroughly with plenty of water 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 clearer followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.

