

Cement Modifier

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.)
Thinner	Water
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 (0.3kg/m²)

PENTENS T-007:	1 L
Water:	3 L

Slurry coating (1mm)

Portland cement:	2 kg
Fine sand (AG10):	1 kg
PENTENS T-007N:	2 L

Waterproof render (3~5mm)

Silica sand (AG3):	135 kg
Portland cement:	45 kg
PENTENS T-007N:	10 L
Water:	20 L

Light duty flooring screed (3~5mm)

Flooring sand:	135 kg
Portland cement:	45 kg
PENTENS T-007N:	10 L
Water:	20 L

Heavy duty granolithic topping (6~30mm)

Granite chips (3mm):	150 kg
Flooring sand:	150 kg
Portland cement:	100 kg
PENTENS T-007N:	9 L
Water:	72 L

Instruction for Use

Surface Preparation

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.

- Substrate should be primed with a 1:3 mixture of PENTENS T-007 and water.
- Brush on at the approximate rate of 0.3kg/m^2 .
- Allow to become tacky then apply topping.
- 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 to be cleaned with 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.



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