

PENTENS T-305TH

Flexible Cementitious Waterproofing Coating

Product Data Sheet



Description

PENTENS T-305TH a two-component flexible cementitious waterproofing slurry comprising factory packed powder (PENTENS T-305TH B) and liquid (PENTENS T-305TH A). It is applied to both concrete and mortar to prevent water ingress.

Uses

PENTENS T-305TH can be used for positive and negative side waterproofing.

- Potable water tanks
- Suspended floors
- Terraces and balconies
- Bathroom floors and walls
- Basements
- Retaining walls

Advantages

- Strong adhesive strength
- Slightly flexible
- Pre-batched and ready for used
- Highly workability
- Anti carbonation
- With good wear resistant
- Impermeable
- Increased frost and salt resistance
- Resist carbon dioxide penetration
- Non-toxic
- Mixes and applies easily
- Good adhesion to substrates

Technical Data

Tensile Strength (kgf/cm ²) (ASTM D 412)	12.30
Elongation (%) (ASTM D412)	75.98
Tear Strength (kgf/cm ²) (ASTM D624)	13.70
Hardness (Shore A) (ASTM D2240)	>5
Water Absorption (%) (ASTM D570-98(2010)e1)	1.13
Shear Strength (kgf/cm ²) (ASTM D1002)	5.90
Water Vapor Transmission i. WVT (g/hxm ²)(23°C, 50%) - ASTM E96	53.42
ii. Permeance (g/sxm ² xPa) - Method B	1.98 x 10 ⁻⁵
Abrasive Test (g) – Taber CS-17, 1000g, 1000 Cycles (ASTM C501)	0.032
Puncture (kgf)	9
Compressive strength @ 28 days (kgf/cm ²) (ASTM C39/C39M-12a)	280
Pot life	30min at 30°C and will be shortened at higher temperatures
Shelf life	12 months when unopened
Storage condition	Store in a dry cool place
Packaging	T-305TH A: 10kg/pail T-305TH B: 25kg/bag

Important Notes

- Minimum ambient and substrate temperature is 5°C.
- Never apply more than 1 kg/m² of PENTENS T-305TH in one single layer.
- Apply only to clean, sound substrates – surfaces should be well dampened but free of surface water and leaks.



Instruction for Use

Surface Preparation

Surfaces must be clean, free from grease, oil and loosely adhering particles. All surfaces must be as flat and level as possible.

Absorbent surfaces must be thoroughly saturated with water prior to application of first coat of PENTENS T-305TH. However, no loose standing water should be on the surface before application.

Mixing

Add PENTENS T-305TH B (25kg powder) gradually to the PENTENS T-305TH A (10kg resin) and mix thoroughly until it blends completely with cement compound. Use mixture within 30 minutes.

Consumption

Standard coating system:

PENTENS T-305TH applied in minimum two coats (exclude primer)
1 x coat of PENTENS T-007 at 0.2kg/m²
2 x coats of PENTENS T-305TH at 1.0kg/m²/coat

Water retaining structure coating system:

PENTENS T-305TH applied in minimum three coats (exclude primer)
1 x coat of PENTENS T-007 at 0.2kg/m²
3 x coats of PENTENS T-305TH at 1.0kg/m²/coat

NOTE:

- PENTENS T-305TH must be applied in minimum 2 coats.
- More coats may be required in areas of extremely high infiltration.

Application

Dilute 1 portion of PENTENS T-007 permeable primer with 3 portions of clean water and apply directly to the surface in order to improve the bonding.

Apply PENTENS T-305TH to construction surface by using brush, roller or spray method. The time interval between coats shall be 4-8 hours, and make sure that the first layer of waterproofing has been dried and formed as membrane.

Over Coating

After the primer PENTENS T-007, PENTENS T-305TH can be applying directly provided with areas exposed hot drying winds. For indoor areas, it is recommended that allow approximately 30 minutes after the primer.

For more details, please refer to PENTENS Technical Department.

Curing

For optimum performance, PENTENS T-305TH should be allowed to cure for 24 hours before the finishing concrete, tiles etc and during this time precautions must be taken to prevent damaging to the coating.

Cleaning

Tools and equipment just can be clean with clean water immediately, after use. Hardener material can only be mechanically removed.

Safety

As cement is alkaline and may cause irritation, applicators are recommended to wear gloves and goggles when using PENTENS T-305TH. In case contact with eyes, flush immediately with clean water and seek medical assistance if symptoms persist.