

PENTENS T-009

Water-based Silylated PMMA Coating

Product Data Sheet

Description

PENTENS T-009 is a PMMA – silylated polymethylmethacrylate resin based coating of good hardness, adhesion, wear resistant, scratch resistant, UV resistant, anti-corrosive sealer, primer & finish for a wide variety of exterior and interior surfaces.

Uses

Interior / Exterior applicable surfaces are including:

- Concrete
- Plaster
- Metal
- Stone
- Glass
- Tile

Areas of use are such as:

- Bonding agent / Primer
- Liquid floor Hardener
- Concrete curing compound
- Wall and floor coating
- Concrete sealer (mix with filler / aggregate)

Advantages

- Excellent adhesion to dry / wet inorganic substrate
- High resistance to weathering and blistering
- Excellent color retention
- Extremely low VOC
- Easy clean-up using water

Technical & Physical Data

Appearance (mixed)	Brushable / rollable / sprayable uniform liquid in color
Finish	Semi-gloss
Color	Milky in liquid Transparent (when cure)
Density (kg/ltr)	1±0.01
Solids content (%)	> 50
VOC content (g/L)	0.177
Viscosity, (cP)	300 (approx.)
Bond strength (kgf/cm ²)	
Polycarbonate plate:	7
Glazed ceramic tile:	7.1
Concrete:	18.5
Steel:	9.3
Thinner	Water
Self life	12 months when unopened / damaged
Storage condition	Store in a dry cool place
Packaging	18 kg/pail

Precautions for use

- The application and drying temperature must be between 10°C and 35°C.
- Do not apply to heavy duty industrial floor.



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

Surface must be clean, smooth, dry, and free of wax, grease, oil, loose or peeling paint, and other foreign material.

Primer on Glass, Steel, Glazed tile surfaces

PENTENS T-009 is specially designed for non-porous substrates like glass, steel, and glazed tile surface. Simply apply PENTENS T-009 by using roller / brush / squeeze / spray equipment onto non-porous substrates without further dilution with water.

Consumption: approximately 0.15 kg per square meter.

Clear Coating

Apply PENTENS T-009 to the well primed surface by using brush or lamb wool roller or spray equipment.

The second coat may be applied as soon as the first coat has initially dried (typically 4 to 6 hours). The time will be dependent on the type of surface and the ambient conditions.

Consumption: 0.2 kg per coat per square meter.

Liquid Floor Hardener

Timing

Of utmost importance, after the concrete is leveled and when the concrete can support a person leaving footprints but without bleed water rising.

Spray-On Method

Dilute PENTENS T-009 with pure water on 1:2 ratio and mix homogeneously, then applied to fresh concrete surface by using spray equipment. The balance should be evenly sprayed once again and integrated into the concrete using a mechanical trowel/power floating.

Consumption: 0.6 kg (Diluted solution) per square meter.

Concrete Curing Compound

Dilute PENTENS T-009 with pure water on 1:5 ratio and mix homogeneously, then applied to the prepared surface by using brush or lamb wool roller or spray equipment.

Diluted PENTENS T-009 should be spray applied to the surface of newly hardened concrete immediately after demoulding. In such cases the concrete surface must be damp and not dry.

Spray equipment should be held back and forth on the concrete surface to ensure fine and complete coverage. The applied film should not be walked on before it is fully dry.

Consumption: 0.5 kg (Diluted solution) per square meter.

*The material consumption of a primer / clear coating, liquid floor hardener, and concrete curing compound is for reference only. The actual amount of use is depending on the porosity of the substrate.

Safety

PENTENS T-009 is non-toxic. For personal precautions, applicators are recommended to wear gloves and goggles when handling PENTENS T-009.

