PENTENS E-601

Solvent Free, Self-Leveling Epoxy Top Coat

Product Data Sheet

Description

PENTENS E-601 is a two-component modified epoxy resin mixed with pigments (A-Comp.), and polyamine hardener (B-Comp.)

PENTENS E-601 is a High Build Coating Systems are available in a variety of thicknesses (2 to 3 mm typical). The glossy, easy-to-maintain surface resists dirt and chemical penetration while enhancing the appearance and light reflectivity of your facility.

Uses

It provides a hard wearing attractive leveled floor, which is chemical resistant, impervious and extremely easy to clean.
PENTENS E-601 property provides dust free, seamless floor.

- Food Industrials
- Clean room
- High mechanical wear
- Traffic Zones
- hygienic
- Assembling plants
- Storage and logistic areas
- Chemical and pharmaceutical industries
- Institutional areas

Advantages

- Solvent free.
- Excellent wear and impact resistant properties
- Impervious to liquids and excellent resistant to chemicals
- Easy application.
- High strength.
- Varying degree or anti-skid finish available
- USDA approved
- Protects and beautifies
- Aesthetics
- High mechanical.
- Short waiting times.
- Easy to maintain
- Design application to fit budget

Technical & Physical Data

Form		Liquid
Specific Gravity		1.3
Flexural Strength (N/mm^2) (ASTM C 580)		32
Tensile Strength (N/mm^2) (ASTM C307)		40
Elongation at break (%) (ASTM D638)		9
Compressive Strength (N/mm^2) (ASTM C 579 : 93)		> 75
Abrasion Resistance CS-17 (ASTM D 4060)		10 mg weight loss after 1000 cycles of abrasion.
Tensile Adhesion (Pull-out-Strength) (ASTM D 4541)		3.5 N/mm^2 Failure in concrete
Pot life (25°C)		20 minutes
Shelf Life & Storage Condition		Have a shelf lift of 1 year at dry and cool place
Packaging	E-601A	20kg pail
	E-601B	5kg pail

Chemical Resistant

ACIDS	Citric Acid 10%	Excellent
	Tartaric Acid 10%	Excellent
	Acetic Acid 5%	Excellent
	Hydrochloric Acid 25%	Excellent
	Sulphuric Acid 50%	Excellent
	Nitric Acid 25%	Very Good
ALKALI	Fuel / Petrol	Excellent
	Sugar Solution	Excellent
	Lactic Acid 10%	Excellent
	Sodium Hydroxide 50%	Excellent
	Phosphoric Acids 50%	Very Good
SOLVENT	Xylene	Excellent

Important Notes

1. Minimum ambient and substrate temperature is 5°C.
2. Apply only to clean, surfaces should be free of surface water and leaks.

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.

The substrate should be level, preferably slightly rough and dry (maximum 4% moisture content or at least 28 days old).

Priming

A-Comp. and B-Comp. of Epoxy Primer E-008 to be diluted and mixed until a homogeneous substance has been reached. Apply with brush and / roller. Allow primer to dry 4 hours or until tack free.

Epoxy sealer/screed

Distributes the mixture of PENTENS E-502 and AG-9 or selected aggregate over the floor onto the cured primer as a layer of sealer or leveling mortar screed, trowel the sealer/mortar screed to the required thickness. After the epoxy screed has cured (12~24 hours), high spots or trowel marks should be rubbed down and dust and other debris removed by vacuum cleaning.

Self-leveling Top Coat

A and B Component of PENTENS E-601 to be mixed until a homogeneous substance has been reached.
Distribute the mixture over the floor.
Apply using a rake to achieve required thickness, trowel to obtain finish and spike roller to release entrapped air.

Anti-slip Top Coat

PENTENS E-601 is anti-skid finish available.
Add aggregates (AG-3+AG-9) into mixed E-601A/B, slowly under continuous mixing. Mechanical mixer should be used.
Distribute the mixture over the floor.
Trowel or scrape the mixture to the thickness less than 1mm and obtain an anti-slip finish.
Trowel marks should be smoothed away by using a wool roller longitudinally and transversely.

Curing

- Foot traffic after 72 hours
- Full mechanical and chemical resistant is achieved after 7 days

Cleaning

Tools and equipment just can be clean with thinner 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.

PENTENS

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