

PENTENS E-601

Epoxy Self-Leveling Floor Systems

Product Data Sheet

Description

PENTENS E-601 is a two-component self-leveling epoxy coating system consisting of modified epoxy resin mixed with pigments (A-Comp.) and polyamine hardener (B-Comp.).

PENTENS E-601 is a high-build coating system available in a variety of thickness (20 to 30mm typical). The glossy, easy-to-maintain surface resists dirt and chemical penetration while enhancing the appearance and light reflection in your facility.

Uses

It provides a hard-wearing attractive leveled floor, which is chemical-resistant, impervious and extremely easy to clean.

PENTENS Epoxy Self-leveling Floor System provides dust free, seamless floor for:

- Food industries
- Clean rooms
- High mechanical wear areas
- Traffic zones
- Hygiene rooms
- 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 resistance against chemicals.
- Easy application.
- High strength.
- Varying degrees of anti-skid finish available.
- Protective and aesthetic.
- High mechanical strength.
- Short waiting time.
- Easy to maintain.

Technical & Physical Data

Form	Liquid
Specific Gravity	1.7
Flexural Strength (N/mm ²) (ASTM C 580)	32
Tensile Strength (N/mm ²) (ASTM C 307)	40
Elongation at break (%) (ASTM D 638)	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
Consumption	4-6 kg/m ²
Shelf Life & Storage Condition	1 year at dry, 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
ALKALIS	Nitric Acid 25%	Very Good
	Fuel / Petrol	Excellent
	Sugar Solution	Excellent
	Lactic Acid 10%	Excellent
	Sodium Hydroxide 50%	Excellent
SOLVENT	Phosphoric Acids 50%	Very Good
	Xylene	Excellent
	Skydrol	Good

Important Notes

1. Minimum ambient and substrate temperature is 5°C.
2. Apply only to clean surfaces which free from surface water and leakages.

Instruction for Use

Surface Preparation

All surfaces must be clean, free from grease, oil and laitance. Remove all dirt and contaminants which might affect adhesion. The substrate should be level, preferably slightly rough and dry (maximum 4% moisture content or at least 28 days old).

Mixing

PENTENS E-601 A/B must be mixed homogeneously prior to application with an electrical or pneumatic power stirrer at approximately 300 - 400 rpm.

(Mixing time is approximately 3-4 minutes depending on circumstances as it may take a longer time until a homogeneous mix is achieved in certain circumstances.)

Application

PENTENS E-008A and PENTENS E-008B of Solvent Free Epoxy Primer should be mixed till homogeneous. Apply with brush or roller.

PENTENS E-601A and PENTENS E-601B Component Epoxy Self-leveling Floor should be mixed slowly and continuously till homogeneous using a mechanical mixer.

Distribute the mixture over the floor.

Apply with a rake to achieve the required thickness, trowel for better finishing and spike roller to release entrapped air.

Coverage Rate:

1.2kg/mm/m²

Curing:

- Foot traffic after 6 hours
- Full mechanical and chemical resistance is achieved after 7 days

Cleaning

Tools and equipment can be easily cleaned with thinner immediately after use. Hardened material can only be mechanically removed.

Safety

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

