

# PENTENS E-DECO601

## PENTENS Epoxy Decorative Flooring System

### Product Data Sheet

#### Description

PENTENS E-DECO601 is a new approach to seamless epoxy flooring which uses state of the art coating technology to provide a coating system with low odor, extremely low volatile organic content and excellent resistance against mechanical wear and chemical attack.

#### Uses

PENTENS E-DECO601 is recommended for

- Garages
- Schools
- Workshops
- Food preparation areas
- Laboratories
- Industrial and commercial areas.

#### Advantages

- Solvent-free.
- Extremely low VOC content.
- Unaffected by most household chemicals, including engine oil.
- Wide range of colors available.
- Easy to maintain.

#### Technical & Physical Data

Form	Liquid	
Specific Gravity	1.5	
Abrasion Resistant CS-17	10 mg weight loss	
Hardness (Shore D)	82	
Tensile Adhesion	3.5 N/mm <sup>2</sup>	
Pot Life (25°C)	30 minutes	
Application Temperature	10°C to 35°C	
Shelf Life	1 year when unopened and undamaged	
Storage Condition	Store in a dry, cool place	
Packaging	A-comp.	B-comp.
■ Colored Epoxy Basecoat	20kg /pail	5kg /pail
■ Clear Epoxy Topcoat	15kg /pail	9kg /pail

#### Chemical Resistant

Acids	Citric Acid 10%	Excellent
	Tartaric Acid 10%	Excellent
	Acetic Acid 5%	Excellent
	Hydrochloric Acid 25%	Excellent
	Sulphuric Acid 50%	Excellent
Alkali	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



Transparent top coating: E-610 (0.8kg/m<sup>2</sup>)

Colored base coating: E-601 (0.8kg/m<sup>2</sup>)

Screed: E-502+Silica sand (1.0kg/m<sup>2</sup>)

Primer: E-008 (0.2kg/m<sup>2</sup>)

Substrate has to be level and smooth

## Instruction for Use

### Surface Preparation

All the surfaces must be clean, free from grease, oil, laitance, 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).

### Primer

Mix component A and component B of epoxy primer (PENTENS E-008) with a low speed electric or pneumatic power stirrer until a homogeneous substance is achieved.

Immediately pour the material onto the substrate after mixing and spread the mixture using a squeegee or paint roller. For very porous substrates, a second primer coat may be required.

### Epoxy Screed

Distribute the mixture of PENTENS E-502 and silica sand or selected aggregate over the cured primer as a layer of leveling mortar screed and trowel the mortar screed to the required thickness. After the epoxy screed is cured, high spots or trowel marks should be rubbed away and dust and other debris removed by vacuum cleaning.

### Drawing

Make an outline of the desired drawing on the cured epoxy screed before painting.

### Colored Base Coating

Mix component A and component B of colored epoxy basecoat (PENTENS E-601) with a low speed electric power stirrer until a homogeneous substance is achieved.

Immediately pour the material onto the leveled epoxy screed after mixing and spread the mixture using a trowel.

### Transparent Top Coating

Mix component A and component B of clear epoxy topcoat (PENTENS E-610) with a low speed electric power stirrer until a homogeneous substance is achieved.

Immediately pour the material onto the colored basecoat after mixing and spread the mixture using a trowel.

### Areas Exposed to Direct Sunlight

Replace the final coat of Epoxy Clear Mixture (above) with two coats of PENTENS PU-820F, each coat applied at approx. 0.2kg/m<sup>2</sup>. PENTENS PU-820F is a solvent-based, moist curing and UV-stable polyurethane.

### Curing

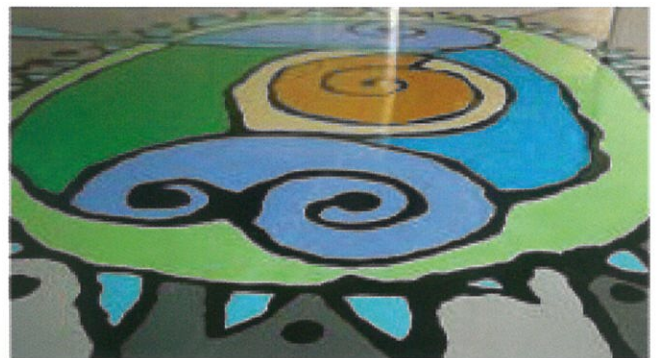
- Foot traffic after 24 hours
- Full mechanical and chemical resistance is achieved after 7 days

### Cleaning

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

### 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 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 cleanser and followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.

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