

PENTENS E-500

Solvent-free, Transparent, Two-component Epoxy Resin

Product Data Sheet

Description

PENTENS E-500 is resistant to high mechanical loads, thanks to its strong surface and wear and tear resistance. This makes it an ideal solution for mechanically loaded areas.

Uses

- Binding resin for self-levelling epoxy resin
- Production of light and heavy duty resin screed systems
- Injection resin for dry, static cracks between 1-2 mm in width
- Bonding coat for epoxy repair system, work with carbon fiber sheet

Advantages

- Very good adhesion on mineral substrates, can be highly filled with mineral aggregates.
- Self-leveling even when filled with up to 3 parts of silica sand 50/100 mesh.
- Produces high strength mortars with high resistance against rolling and abrasive loadings, filled with up to 10 parts of silica sand 30/60 mesh.
- High chemical resistance.
- Primer on mineral-based substrates prior to application of solvent-free coatings and screeds.

Technical & Physical Data

Form	Liquid
Density (mixture)	Approx. 1.10g/cm ³
Viscosity	Approx. 500-600mPas
Mixing Ratio	3:1
Resistance to Foot Traffic	After 24 hours
Full Mechanical and Chemical Resistance	After 7 days
Compressive Strength	> 72 N/mm ²
Tensile Strength	> 20 N/mm ²
Minimum Application Conditions	8~30°C substrate temperature, < 85% rel. humidity
Storage (not mixed)	Stored in original sealed packs under cool and dry conditions
Shelf Life	12 months when unopened
Packaging	
■ E-500A	15kg /pail
■ E-500B	5kg /pail

Important Notes

1. Minimum ambient and substrate temperature is 5°C.
2. Apply only to dry and clean surfaces.

Instruction for Use

Surface Preparation

Substrate must be clean and free from all loose particles, dust, cement laitance, oil and other contaminants.

Mixing

PENTENS E-500 consists of a base and a hardener component supplied in prebatched packs. Before application, the base and the hardener component are carefully mixed by using a slow-rotating electric drill with paddle. To complete the mixing, the resin is poured from one can to another and mixed again. Mineral aggregates are mixed with the binding resin by using a forced action mixer. To ensure the correct mixing ratio and for ecological reasons, packs should be emptied thoroughly.

Application

Application of PENTENS E-008 as a primer is normally by using rubber squeegees or rollers. Self-leveling screeds made from PENTENS E-500/silica sand 30/60 mesh mixtures are applied by using steel float trowels or rubber squeegees on the primed surface. To obtain higher anti-skid scratch coats or self-leveling screeds, they have to be strewn immediately with oven-dried quartz sand.

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 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.