

PENTENS E-008

Solvent-Base Epoxy Primer

Product Data Sheet

Description

PENTENS E-008 is designed specifically for industrial use. PENTENS E-008 is a two-component solvent-free and low viscosity epoxy primer-based binder.

Uses

PENTENS E-008 is suitable for priming, levelling and repairing standard to highly absorbent concrete as well as cement screed surface prior to the application of epoxy coating. PENTENS E-008 is particularly suitable for the preparation of epoxy coating.

- Floor slabs
- Suspended floors
- Storage and logistic areas
- Car park
- Factory floor
- Institutional areas
- Wet and dry processing areas
- Other industrial floorings

Advantages

- Solvent-free.
- Easy application.
- High strength.
- Superb adhesive strength.
- Low viscosity.
- Good penetration.
- High mechanical strength.
- Short waiting time.
- Environmentally friendly.
- Non-toxic.

Technical & Physical Data

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| Form | Liquid |
| Colour | Transparent |
| Density (CNS 6986, CNS 6988) | 1.08kg /litre |
| Hardness (Shore D) | 68 |
| Tensile Strength (kgf/cm ²) (ASTM D638) | 253 |
| Elongation at Break (%) (ASTM D638) | 9 |
| Strengths (For an epoxy screed with PENTENS E-008 filled 1:10 quartz sand) | Compressive Strength: >80 N/mm ² Tensile Strength: >30 N/mm ² |
| Chemical Resistance (10%HCOOH, 60°C, 24 hrs) | No changes on the surface of the sample |
| Pot Life (15kg set at 30°C) | 15 minutes |
| Curing Time | ~Foot traffic after 6 hours ~Fully cured in 7 days |
| Shelf Life | 1 year when unopened and undamaged |
| Storage Condition | Store in a dry, cool place |
| Packaging | |
| ■ E-008A | 20kg /pail |
| ■ E-008B | 10kg /pail |

Important Notes

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

Instruction of Use

Surface Preparation

All surfaces must be clean, free from grease, oil, laitance, dirt and contaminants which might affect the adhesion.

Any cracks or water leakage areas should be pre-treated and reinforced with PENTENS EPTM or PENTENS PU Injection Repair System (for more details, please refer to PENTENS Technical Department).

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

Mixing

PENTENS E-008 A/B must be mixed homogeneously prior to application, using an electrical or pneumatic power stirrer at approximately 300 - 400 rpm. (Mixing time is minimum 3-4 minutes but depending on circumstances, it may take longer until a homogeneous mix is achieved.)

Application

Epoxy Primer:

The homogeneously mixed epoxy binder should be applied to the substrate by using a brush or roller to ensure good wetting of the substrate and sealing of the pores. When a second coat becomes necessary, this may be applied by using a brush or roller.

Consumption

0.20kg/m²/coat

Epoxy Screed:

Mix PENTENS E-008A/B separately and add to the slow-running compulsory mixer containing the aggregate mixture. Mixing is complete as soon as a uniformly-wetted and homogeneous mixture is achieved.

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 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 clean 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.