

High Performance Solvent-free Epoxy Putty Filler

Description

PENTENS E-501S is a high strength, excellent adhesion, ready-to-use, solvent-free, two-part epoxy putty filler. Formulated to a smooth creamy consistency, it mixes easily and can be used for sealing vertical, horizontal, and overhead cracks or voids on the surface of concrete before applying various types of finishing and coatings. Ideal for bonding injection ports of Low Pressure Epoxy Crack Injection System to concrete, steel and timber as it does not shrink or sag and can be easily sanded to a smooth surface.

PENTENS E-501S is safe to use in sensitive locations and it is environmentally friendly with extremely low VOCs (Volatile Organic Compounds).

Uses

Not only used as the putty filler but also suitable for using in areas include:

- § As a sealer coat of water-based and/or solvent-based waterproofing / flooring works
- § As a binder / sealer for fiber glass mat in tank lining works
- § Fill cracks and holes in concrete and masonry structures
- § Concrete patching mortar

Advantages

- § Environmentally friendly
- § Excellent wear and impact resistant properties
- § Impervious to liquids and excellent resistant to chemicals
- § Can be applied to slightly damp surfaces
- § Can be safely applied to freshly laid garden (green) concrete
- § Non-flammable, negligible odor and toxicity
- § Has excellent adhesion to most substrates including brick, masonry, concrete, compressed fiberboard, stone and timber
- § Easy to use, smooth jelly-like consistency

Technical & Physical Data

Appearance (mixed)	Thick, creamy non-sagging putty
Gloss	Low Sheen
Pot life	45-60 minutes @ 25 ⁰ C
Initial cure	12 hours
Mix ratio	2 to 1 by weight
Solid content	100%
Specific gravity (mixed)	Approx. 1.08 @ 25 ⁰ C and 50% RH
Storage	Store in a dry cool place
Shelf life	1 year when unopened and undamaged
Packaging	E-501SA: 18kg pail E-501SB: 9kg pail

Chemical Resistant (20⁰C, 60days)

Hydrochloric acid-10%	No deterioration
Saturated sodium chloride solution	No deterioration
Acetic acid-20%	No deterioration
Sodium hydroxide-30%	No deterioration
Ethyl alcohol/water =60/40	No deterioration
Household detergent	No deterioration
Styrene	No deterioration
Saturated cement solution	No deterioration
Hcooh-10%	No deterioration

Important Notes

Ensure adequate ventilation. Natural cross flow ventilation should be adequate.

Instruction for Use

Surface Preparation

- ✓ The substrate must be clean, dry, free of dust and any trace of formwork release oil.
- ✓ For optimum adhesion to concrete, apply a coat of PENTENS epoxy primer before applying PENTENS E-501S.

Mixing

- ✓ Thoroughly mix the two components in the ratio of 2:1 by weight, using a mechanical forced action mixer with a high shear stirrer until a homogeneous paste is obtained.
- ✓ Only mix as much as may be used within the pot life of the product and avoid excessive aeration during mixing.
- ✓ Discard any material which has exceeded the pot life or working time of the product.

Application

- ✓ Apply with putty knife or metal trowel.
- ✓ Allow to cure for a minimum of 12 hours at 25°C/50%R.H. before applying top coatings or other surface treatments.

Safety

On contact, E-501S may cause irritation. Gloves and protective goggles must be worn during application and use. Avoid contact with skin, eyes and avoid breathing in vapor. Wear protective gloves when mixing or using. If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed, do not induce vomiting. If skin contact occurs, remove contaminated clothing and wash skin thoroughly for a minimum of 15 minutes and see a doctor.

