

PS Epoxy Putty

three component, high strength, non flow epoxy system



Description

PS Epoxy Putty is a three-component, high strength, non-flow, epoxy system which when mixed yields a non-slumping, fast-curing bedding compound and adhesive which provides a smooth finish.

The high-strength non-sag epoxy compound shall be complying with ASTM C881 Type I, Grade 3, Class B & C. It shall be formulated to achieve adhesive bond strength with concrete substrate exceeding the inheriting tensile strength of concrete substrate. PS Epoxy putty has excellent chemical resistance to the following: Most aqueous systems, sewage, urine, sea water, diluted and concentrated alkalis, diluted acids, sulphur gases, minerals, vegetable and animal oils and fats, ammonia, and formaldehyde.

Uses

- For surface repairs of fine cracks and spalls.
- Topcoat for coving
- For gap filling, grouting, bedding fixtures, etc.
- For repairs without the use of formwork. Typical applications include:
- Fixing of surface ports for crack injection.
- Bedding bridge beams or steel bridge bearings.
- Repairing surface defects on concrete in horizontal, vertical, or overhead situations.
- Securing bolts into walls and dowel bars anchoring.
- Bedding tiles.
- As a gap-filling adhesive.
- Repairing concrete posts in situ.

Characteristics / Advantages

- High bond strength.
- Non-sag (up to 5m).
- Impact resistant
- Chemical resistant.
- Supplied in pre-weighed units.
- Non-shrink.
- Eliminates the requirement of bonding agent and primer.
- Trowels to a smooth finish.
- Easy to use.

Product Information

Packaging

5 kg three component pack

Appearance

Off-white viscous paste

Coverage

A 5 kg pack of PS Epoxy Putty will yield 2.70 Lit of mixed material and is sufficient for 2 m² area at average of 1.3 mm thickness on a fair-faced concrete surface.

Shelf life &

Store under cover, out of direct sunlight and protect from extremes of

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Storage Conditions temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is 12 months when stored as above

Mechanical / Physical Properties

Typical properties	Mixed Density	1.68 kg/litre
	Volume of solids	100%
	Mixing ratio by weight	20(B): 10 (H): 70 (F)
	Tack free time	7 hrs. at 25°C 2 hrs. at 40°C
	Pot life	60 minutes @25° C 30 minutes @45° C
	Compressive strength (ASTM C579)	40 MPa at 24 Hours 60 MPa at 7 Days
	Adhesive bond strength to concrete (ASTM D4541)	>2 MPa (Substrate Failure)

Application Details

Surface preparation The surface should be structurally sound & clean. Remove all loose particles, laitance, dust, oil, grease, wax, curing compound, mold release agent & other contaminates etc. prior to application of PS Epoxy Putty.

Application Instructions

Mixing Empty the hardener to base and mix using drilling machine (300 to 400 rpm) fitted with a paddle. Add the filler component and mix for 2-3 minutes to lumps free smooth consistency

Application Knife or trowel PS Epoxy Putty to the required level using a thin coat of solvent on the trowel to aid workability. The surface may be finished smooth by use of a paint brush. Where a very deep recess is to be filled, it may be necessary to build up in layers. Repairs may be camouflaged if required by covering surface with cement powder before full cure is affected.

Temperature Requirements Substrate temperatures: 15°C – 35°C; while material temperatures: 15°C – 30°C Very low or very hot temperatures will make application more difficult and careful consideration should be given to storage of materials. In cold weather conditions, pre-condition materials by keeping it in a heated room. In hot weather conditions, some form of air-conditioned storage is required. Pre-conditioned materials at 20-25°C will reduce the possibilities of flash/slow setting and other defects.

Health & Safety Information For Information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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During use, avoid inhalation and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Legal Notes

The information and in particular the recommendations relating to the application and end use of products are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with recommendations. In practice the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information or from any written recommendations or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose reserves the right to change the properties of its products. The Proprietary rights of third Parties must be observed. All orders are accepted subject to our current terms of sale and delivery.

Users must always refer to the most recent issue of the local product Data sheet for the product concerned copies of which will be supplied on request.

IPSS Industrial Products

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