



EP 21 P

Two Component Solvent Free, Moisture Insensitive Epoxy Putty

Pack Size
8Kgs & 4Kgs

TDS Technical Data Sheet

Description:

Two Component Solvent-Free, Moisture Insensitive Epoxy Putty

Product Properties

- Two-component, solvent-free formulation.
- Provides strong bond strength in dry, moist, and underwater conditions.
- Suitable for marine environments.
- Good resistance against impact loading conditions.
- Exhibits excellent mechanical properties.
- Functions as an effective waterproofing barrier.

Areas of Application

- Recommended for sealing cracks in concrete and metal in dry, moist, and underwater conditions.
- Ideal as a protective layer for concrete structures.
- Suitable for pointing work and surface preparation in marine environments.

Application Notes

General: EP 21 P is a two-component, solvent-free, epoxy resin-based material in putty consistency with special moisture-insensitive properties. It adheres well to concrete, steel, and masonry, providing resistance to water, corrosion, and chemical attack. The cured matrix is also abrasion-resistant, making it suitable for reservoirs, tanks, silos, potable water works, breweries, dairies, meat, and food processing units.

Surface Preparation:

Concrete:

All surfaces must be smooth, sound, and free from contaminants such as oil, grease, dust, and loose particles. Concrete surfaces must be fully cured, free from laitance, and any traces of shuttering, release oils, and curing compounds. For old structures, remove existing paints thoroughly and clean all honeycombs to remove foreign materials using a pressurized water jet.

Steel:

The steel surface must be prepared to SA 2½ in accordance with DIN 55928, part 4, and must be free from rust and contaminants. Shot blasting with quartz-free abrasives, sand-blasting, or other suitable techniques is recommended.

Application:

EP 21 P should be applied using a glove-protected hand, spatula, or trowel. The mixed material should be placed properly and evenly on the prepared substrate, and finished by slight rubbing with wet gloves.

Conditions of Application:

Application should cease if the ambient temperature or the temperature of the structure drops below +5°C.

Safety & Precaution

For all work with epoxy resins, appropriate protective clothing (safety glasses and gloves) should be worn. The unmixed hardener is highly alkaline and a skin irritant, and should not come into contact with skin, especially mucous membranes. If resin contacts the eyes, rinse immediately using an eyewash, and seek medical advice.

Cleaning

All injection machines can be cleaned with EP 21 P immediately after use or during any extended break.

Product Characteristics

Characteristic	Unit	Value	Comments
Mixed Density	Kg/l	1.55	At 27°C
Mixing Ratio	p.b.w	1:1	Resin: Hardener
Pot Life	min	50	100g at 30°C, per FIP 5.1
Compressive Strength	N/mm ²	>20 (1 day), >25 (3 days)	ASTM C579
Bond Strength	N/mm ²	>2.5 (3 days)	EN-1542
Slant Shear	N/mm ²	>10 (3 days)	ASTM C882
Tensile Strength	N/A	Concrete Failure	FIP 5.14
Application Condition	°C	+5 to +40 (Substrate, Ambient, Material Temperature)	
Colour	N/A	Gray	
Cleaning Agent	N/A	EP 21 P (Water or water-based cleaners must not be used)	
Delivery	N/A	8 kg	
Shelf Life	N/A	12 months	In original sealed packaging at +5°C to +30°C
Storage	N/A	Dry conditions	Same requirements apply for transport
Disposal	N/A	Completely empty packs	

Safety Advice

Please take notice of the safety information and advice given on the packaging labels, safety data sheets, and general application advice.

Health & Safety

Avoid prolonged contact with eyes and skin. For detailed information, refer to the relevant material safety data sheet.

Packing & Storage

Store containers in a clean, dry area, protected from direct sunlight and extreme temperatures. Unopened containers can be stored for 12 months.

Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Pack Size

8Kgs & 4Kgs

Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.