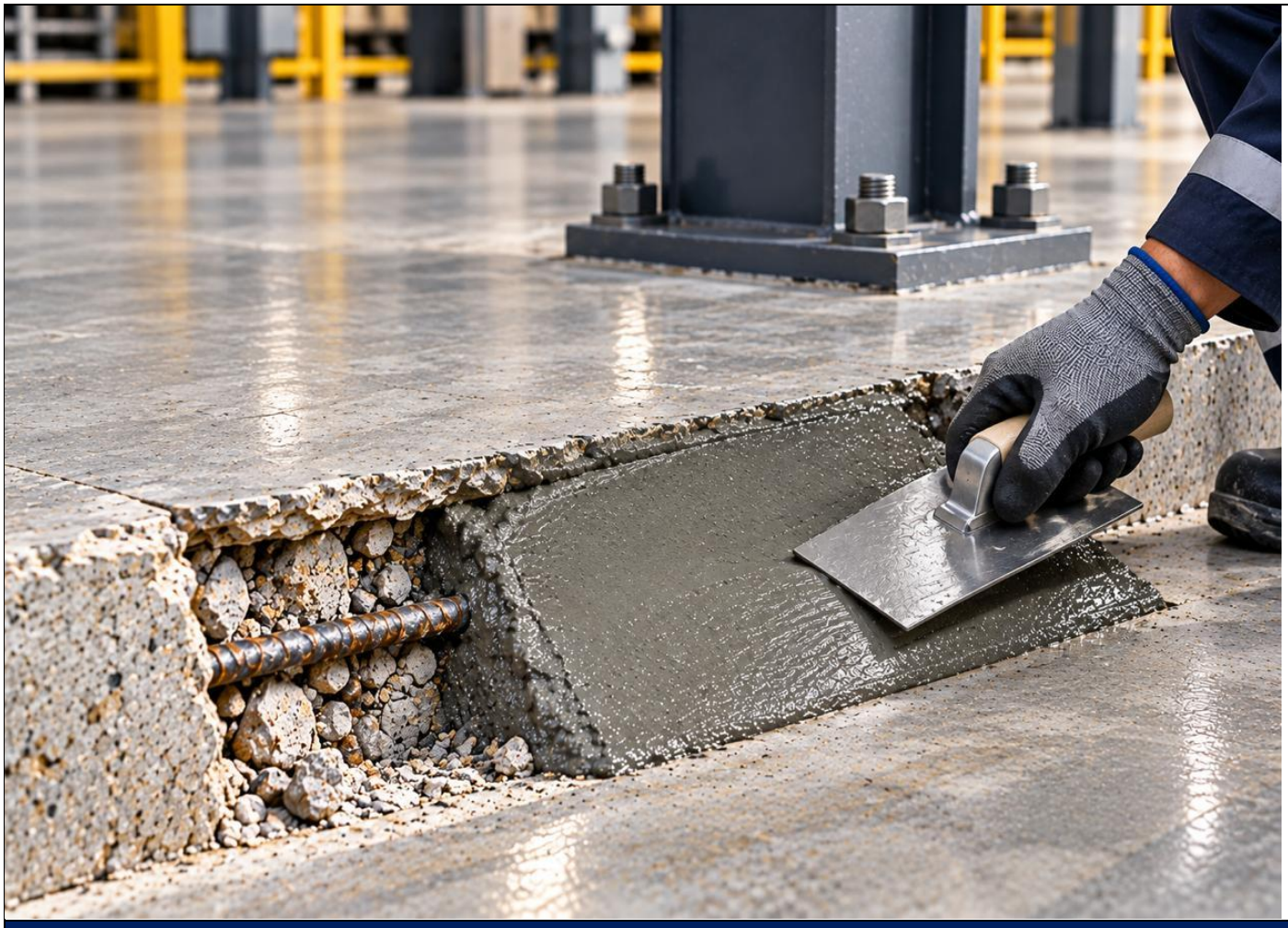
TECHNICAL DATA SHEET



EPOREPAIR

Epoxy Based High Strength, Abrasion Resistant, Heavy Duty, Repair Mortar.

- High ultimate strength - Suitable for structural use
- Early development of strength Minimises disruption
- Abrasion resistance - Suitable for heavy traffic areas
- Highly resistant - To a wide range of chemicals
- Will cure under damp conditions - Cured product is highly impermeable to water
- Typically, twice as strong as good quality concrete
- Pre-weighed components ensure consistency

EPOREPAIR

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Heavy Duty, Repair Mortar.

DESCRIPTION

POWERFIX EPOREPAIR is a three-component epoxy-based repair mortar developed for localized repair and reinstatement of damaged concrete surfaces and cementitious substrates. The system consists of Part A (epoxy resin), Part B (hardener) and Part C (graded mineral filler). After mixing in the specified proportions, the components form a resin-bound mineral mortar designed to provide mechanical strength, adhesion and durability when applied to properly prepared substrates. The product is intended for industrial and commercial repair applications where a resin-based repair material is required. Final performance depends on the selected raw materials, filler grading, substrate preparation, mixing accuracy and curing conditions.

TYPICAL APPLICATIONS

POWERFIX EPOREPAIR may be evaluated for:

- Repair of localized concrete defects and cavities.
- Repair of damaged concrete edges and corners.
- Industrial concrete floor repairs.
- Concrete repairs around machinery bases and equipment foundations, subject to engineering approval.
- Repair of spalled or deteriorated concrete after removal of unsound material.
- Maintenance of concrete structures where an epoxy-bound repair mortar is specified

PRODUCT COMPONENTS AND PACKING

Component	Description	Net quantity
Part A	**Epoxy Resin**	**2.200 kg**
Part B	**Hardener**	**0.800 kg**
Part C	**Mineral filler**	**19 kg**

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TECHINCAL DETAIL

Test methods	Typical results	
Compressive strength (BS 6319, Pt 2)	50N/mm2 @ 7 days	
Flexural strength (BS 6319, Pt 3)	18N/mm2 @ 7 days	
Tensile strength (ASTM C 307)	8N/mm2 @ 7 days	
Pot life	20 mins @ 350C	
Initial hardness	24 hours	
Full cure	7 days	
Fresh wet density	Approx. (1900 TO 2100 kg/m3) fully compacted	
Chemical resistance	The low permeability of EPOREPAIR retards chemical attack in aggressive environments.	
Performance of EPOREPAIR blocks continually immersed at 25 C.		
Hydrochloric acid	18%	Resistant
Tartaric acid	10%	Resistant
Citric acid	10%	Resistant
Sodium Hydroxide	40%	Resistant
Sulphuric acid	10%	Resistant
Nitric acid	10%	Resistant
Acetic acid	05%	Resistant

SUBSTRATE PREPARATION

Correct surface preparation is essential for satisfactory adhesion and long-term performance.

- Remove all loose, weak or deteriorated concrete.
- Mechanically prepare the repair area to expose sound concrete and provide a suitable surface profile.
- Remove laitance, dust, oil, grease, curing compounds, coatings and other bond-inhibiting contaminants.
- Remove loose particles using an industrial vacuum or another suitable cleaning method.
- Repair areas should be sufficiently accessible to allow proper placement and compaction.
- Confirm that the substrate moisture condition complies with the approved epoxy application procedure.
- Check that the substrate is structurally sound and that any exposed reinforcement has been treated as required by the repair specification.

Do not apply the mortar over a contaminated, friable or unsuitable substrate.

MIXING PROCEDURE

Use the complete kit wherever practical to maintain the specified mixing ratio.

Step 1 — Prepare the components

Ensure all containers are correctly identified, within their shelf life and free from contamination. Homogenize Part A separately if required by its formulation.

Step 2 — Mix resin and hardener

Add Part B to Part A and mix thoroughly using a suitable low-speed mechanical mixer. Scrape the sides and bottom of the container to achieve a uniform blend.

Step 3 — Add mineral filler

Gradually introduce Part C into the resin-hardener blend while mixing. Add the filler progressively to prevent dry pockets, lumps and uneven wetting.

Step 4 — Complete mixing

Continue mixing until the mineral filler is uniformly wetted and the mortar has a consistent appearance and texture. Avoid excessive mixing speed that may entrain air.

Step 5 — Apply promptly

Transfer the mixed material to the prepared repair area within the validated pot life. Do not add water or unapproved solvent to improve workability.

Do not use material that has begun to harden or generate excessive heat in the mixing container.

APPLICATION PROCEDURE

- Confirm that the prepared substrate meets the approved surface and moisture requirements.
- Apply any primer only if it is specified and validated for this product system.
- Place the freshly mixed mortar into the repair cavity.
- Compact the material firmly to minimize air voids and ensure contact with the substrate.
- Fill the repair to the specified depth and finish using suitable hand tools.
- Observe the validated layer-thickness limits and any required application sequence for deeper repairs.
- Protect the repair from rain, water, dust, vibration, premature loading and chemical exposure during curing.

Application thickness, primer requirements and finishing time must be confirmed during laboratory and site trials.

CURING AND RETURN TO SERVICE

Curing time depends on the epoxy resin system, hardener chemistry, substrate temperature, ambient conditions and repair thickness.Protect the applied material during the initial cure. Do not subject it to mechanical loading, abrasion, immersion or chemical exposure until the required properties have developed.The manufacturer should establish and publish

- Initial hardening time.
- Time to light foot traffic, if applicable.
- Time to mechanical loading.
- Time to chemical exposure.
- Full cure time at defined temperatures.

Do not use assumed curing times as guaranteed values without testing the finished product.

SELF LIFE AND STORAGE

Shelf life

All products have a shelf life of 12 months at 30C if kept in a dry store in the original unopened bags or packs.

Storage conditions

Store in dry conditions in the original. unopened bags or packs. If stored at high temperatures, the shelf life may be reduced to 4 to 6 months

SAFETY PRECAUTIONS

- Read the Safety Data Sheets for Part A, Part B and Part C before use.
- Wear appropriate chemical-resistant gloves, safety goggles and protective clothing.
- Avoid skin and eye contact with resin and hardener.
- Provide adequate ventilation during mixing and application.
- Avoid breathing filler dust; use suitable dust controls and respiratory protection where required.
- Wash contaminated skin promptly using the recommended procedure.
- Do not use solvents to clean resin or hardener from skin.
- Prevent uncured material from entering drains, soil or waterways.
- Dispose of waste according to applicable local regulations.

- The complete safety classification and PPE requirements must follow the actual raw-material SDS documents.

IMPORTANT NOTE

POWERFIX is a brand of Durga Bondchem Pvt. Ltd. POWERFIX products are manufactured and sold subject to the Company's standard Terms and Conditions of Sale, copies of which are available upon request. Any product warranty shall be subject to the applicable written warranty terms and conditions.

While Durga Bondchem Pvt. Ltd. endeavours to ensure that all technical advice, recommendations, specifications and information provided are accurate and reliable, the information is provided in good faith for general guidance only. Since the storage, handling, substrate conditions, surface preparation, application methods and site conditions are beyond the Company's direct and continuous control, the Company does not warrant the performance or suitability of the product for any particular purpose unless expressly agreed to in writing.

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