

# COSTAR EPOXY CONCRETE REPAIR MORTAR

COSTAR SHRINK-FREE EPOXY CONCRETE REPAIR



## PRODUCT DESCRIPTION

COSTAR EPOXY CONCRETE REPAIR MORTAR is a solvent-free repair mortar with low viscosity. It is a two-component solution, which consists of rapid curing resin based mortar and primer for coating. And appropriate for different ranges of civil works where highly penetrating material is required. It is non-sag property makes it suitable for vertical repairs. Suitable for the repair and filling of cracks up to 6mm wide in a construction works, varying from concrete, bricks, stucco, stone, concrete blocks, tile and other substrates, likewise, provides long-lasting repair for worn-out concrete. For aesthetic finishes, it can be painted or coated to achieve the desired appearance after tack free (approximately 3 hours).

## FEATURES

- Stands up to heavy traffic and many chemicals
- Does not shrink or crack.
- High tensile strength
- For repairing eroded or damaged concrete, bay edges and broken steps
- Easy all-in-1 packaging
- For interior and exterior use
- Excellent and strong adhesion to a wide range of substrate
- Good impact resistant
- Chemical resistant

## INSTRUCTION FOR USE

### Surface Preparation

Concrete and stone surfaces should be dry and free from previous coatings, contaminants and loose material. Very smooth concrete or concrete with soft laitance should be etched. Grease or oil should be removed and the area thoroughly washed off and

allowed to become completely dry.

### Mixing

The pack includes a granular resinous material (Part A-Resin) and curing agent (Part B-Hardener). Mix the granular resinous material with the curing agent. It is important that mixing should be carried out very thoroughly and by mechanical means.

## PRODUCT PREPARATION

### Application & Thinning

Trowel vigorously over the prepared surface. Final leveling should be carried out with a steel float. To prevent 'drag' it is advisable to wipe the blade of the tool frequently with a rag moistened (but not saturated) with white spirit. The working life of the mixed product is half to one hour depending on temperature. If the product is used past its working life, troweling will become difficult and adhesion reduced.

## PRECAUTION

- Do not thin with solvents, as this will prevent cure. Do not use for repairing cracks that are subject to movement until the cause has been addressed.
- Do not apply in areas where service temperatures may reach 140°F (60°C) or higher. Do not attempt to force material through a mixing nozzle that contains hardened material; material may splatter. If a leak should develop, discontinue use immediately. Proceed with new cartridge and nozzle.
- Addition of extra materials to that of included in the package is not advised.
- Do not mix material in open weather under pouring rain
- Add powder to liquid
- Mix material by mechanical means and not manually.
- Always refer to relevant product specification documents (such as TDS, SDS, MSDS MS) for further guidance

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## TECHNICAL PROPERTIES

Packaging	20KG Two component		
Shelf life	12 months from date of production		
Storage condition	Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +35 °C.		
Mixing ratio	Mix as pack		
Application temp	A minimum 10° C Maximum 30° C		
Drying time	10 -12 hours at 20°C light traffic, 7 days to achieve full chemical & mechanical resistance.		
<b>Compressive strength</b>	<b>Curing Time</b>	<b>Curing Temperature</b>	
		<b>+10°C</b>	<b>+23°C</b>
	<b>1 Day</b>	31 N/mm <sup>2</sup>	51N/mm <sup>2</sup>
	<b>3 Days</b>	44 N/mm <sup>2</sup>	59N/mm <sup>2</sup>
	<b>7 Days</b>	54 N/mm <sup>2</sup>	65N/mm <sup>2</sup>
<b>Tensile strength in flexure</b>	<b>Curing Time</b>	<b>Curing Temperature</b>	
		<b>+10°C</b>	<b>+23°C</b>
	<b>1 Day</b>	12 N/mm <sup>2</sup>	24N/mm <sup>2</sup>
	<b>3 Days</b>	22 N/mm <sup>2</sup>	28N/mm <sup>2</sup>
	<b>7 Days</b>	31 N/mm <sup>2</sup>	34N/mm <sup>2</sup>
<b>Tensile strength</b>	<b>Curing Time</b>	<b>Curing Temperature</b>	
		<b>+10°C</b>	<b>+23°C</b>
	<b>1 Day</b>	4 N/mm <sup>2</sup>	8N/mm <sup>2</sup>
	<b>3 Days</b>	11 N/mm <sup>2</sup>	19N/mm <sup>2</sup>
	<b>7 Days</b>	18 N/mm <sup>2</sup>	21N/mm <sup>2</sup>
Density	2.0kg/l		
Tensile strength	12MPa		
Flexural Strength	25MPa (ASTM C580)		
Open time	Approximately 100 minute@20°C and 45minute@35°C		
Pull off bond strength	>2.5 MPa (ASTM D4541/BS 1881 Part 207)		

### CONSUMPTION:

Theoretical consumption 1.9kg/m<sup>2</sup> per mm of thickness. Practical consumption depends on many factors such as porosity, roughness of the substrate and material losses during application.



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### STORAGE AND SHELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

### STANDARD COMPLIANCE

Conforms to the requirement of EN1504-3

### HANDLING PRECAUTION

- Do not apply more than the recommended amount.
- Do not leave puddles. If puddles form on textured surfaces, use a brush to remove them.
- When used as a curing compound, do not apply to finished concrete surface too quickly. Under typical conditions, the proper application time will be 4-6 hours after placing.
- When used as a curing compound in hot, windy weather, the proper application time will be reduced to as little as 2-3 hours after placing.
- Wait at least 10-12 hours in cool weather. Apply after finishing and when surface water has been reabsorbed.
- Do not apply if rain, heavy dew or temperatures below 50°F (10°C) are expected within 24 hours. Keep from freezing during storage.

- Do not cover surfaces treated with COSTAR EPOXY CONCRETE REPAIR for at least 24 hours after application.
- Avoid Contact with eyes and skin, if skin contact occurs, wash skin thoroughly
- If In eyes, hold eyes open, flood with warm water and seek medical attention immediately

### ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

### LEGAL NOTE

The information and recommendations relating to the application of Costarchem 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 the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem 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.

