

# MIXBUILDE ecoSR

Concrete repair / resurfacing mortar

**MIXBUILDE ecoSR** is an inorganic polymer based single component material for repairing / resurfacing / rehabilitation of horizontal surfaces. It is specially designed to produce superior bond strength with fast setting property with high initial strength and allow the repaired surface for further use within a short span of time. The non shrink property of the material along with its co-efficient of thermal expansion with the concrete increases the durability of the mortar.

## Appropriation

Industrial / commercial floors  
Parking areas  
Bridge structures  
Manholes  
Airport runways  
Concrete roads  
Marine structures  
Cold room floors

## Characteristics

Self curing  
Fast setting and high early strength  
Non-shrink  
Water resistant  
Non priming  
Durable  
High adhesion strength  
No V O C contents, non-toxic  
Environment friendly

## Technical Data & Properties

Appearance: Grey powder  
Density: 2.1 gm/cc  
Compressive strength N/mm<sup>2</sup>

	4hr	24hr	72hr	28days
	12	20	40	45

Flexural strength: 9N/mm<sup>2</sup>  
Setting time

Initial set	Final set
20 min	30min

Application temperature: 5 °C to 50 °C

## Product Management

Surface preparation: Concrete and masonry substrates shall be at least 14 days old and the moisture content less than 7%. It should be dry and free of dust, dirt, oil, grease, loose particles, curing compounds, form release agents etc. This can be achieved by wire brushing, grit blasting, high pressure water jetting etc. Bitumen based membranes completely removed from the substrate by mechanical scarification or by any other mechanical way. The substrate must be thoroughly checked for its micro / hair line cracks for its soundness. Surface cracks, and Hollow or damaged portions, sharp edges and wide cracks must be cut and repaired with Mixbuild ecoREP – repair mortar. Edges shall be prepared with suitable cutting tools.

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## Mixing

Add 1.2 ltr clean water for 10kg powder. Mix by using a drilling machine (500 to 800rpm) connected with blade. The initial appearance will be very dry keep mixing and do not add more water to adjust the consistency and addition of water will reduce the properties of mixed mortar. Continue mixing 3-5 minutes

## Placing

When the material in smooth slurry, place the mortar in the area where repairing / resurfacing is required with proper tools depends up on the repair condition like width and depth

Cleaning: Immediately clean the tools with water

## Packing & Storage

MIXBUILDE ecoSR is available in 10 / 20 kg packs. MIXBUILDE ecoSR shall be stored in cool, dry and shaded conditions. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per manufacturer's recommendations. In extreme tropical climate, the product shall be stored in cooled ambience.

## Health & Safety

MIXBUILDE ecoSR contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure the product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each product

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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