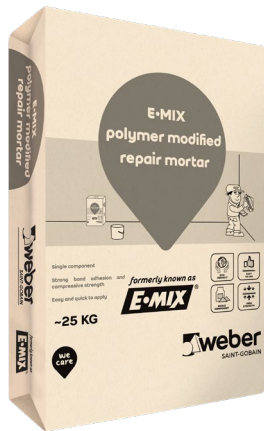


E.MIX Polymer Modified Repair Mortar

Single component, polymer modified cementitious mortar

E.MIX Polymer Modified Repair Mortar is a single component, polymer modified cement-based mortar for patching and repairing of concrete. It has enhanced adhesion and compressive strength. E.MIX Polymer Modified Repair Mortar can be applied up to 40 mm thick in one layer for vertical locations and 30 mm for overhead locations. E.MIX Polymer Modified Repair Mortar is a green-labelled product endorsed by the Singapore Green Building Council.



PRODUCT BENEFITS



SINGLE COMPONENT



SHRINKAGE COMPENSATED



HIGH STRENGTH

USES

E.MIX Polymer Modified Repair Mortar is for spalling concrete repair, filling of gaps and holes in concrete works, reinstatement of large areas of concrete, and general rendering.

ADVANTAGES

- Single component
- Application up to 40 mm in one layer
- Eco-friendly
- Strong adhesion and compression strength

TECHNICAL DATA & PHYSICAL PROPERTIES

Colour	Grey
Component	Portland cement, non-reactive aggregate, graded sand, polymer powder and other chemical additives
Aggregate Size	4.5 mm
Density	Approx. 1.6 kg/litre (dry), approx. 2.0 kg/litre (wet)
Thickness	15 - 40 mm
Water Demand	Approx. 14 - 16 % or 3.5 - 4.0 litres/25 kg bag
Pot Life	Approx. 1 hour
Compressive Strength (ASTM C109/C109M:2020b)	Avg Strength 40 - 50 N/mm ² Indiv Strength < 5 N/mm ²
Stiffening Time (BS EN 1015-9:1999)	166 min (1 N/mm ²); 208 min (2 N/mm ²)
Shrinkage @ 28days (ASTM C531:2018)	≤ 0.08 %
Tensile Bond Strength (BS EN 1015-12:2000)	≥ 1.5 N/mm ²
Tensile Bond Strength (Weathering) (BS EN 1015-12:2000)	≤ 10 %

Specifications are subject to change without notification. Results shown are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance will depend on installation methods and site conditions.

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CONSUMPTION

Approx. 1.75 kg/m²/mm thick

PROCEDURE & APPLICATION



Substrate Preparation

The edges of the repair area should be saw-cut with a minimum depth of 10 mm. For better adhesion, a depth of 15 mm is recommended. Honeycomb must be hacked off. Reinforcement should be cleaned and rust should be completely removed. To protect the reinforcement, either apply a rust primer or brush a slurry coat of cement mixed with E.MIX Bond Admix onto the exposed steel reinforcement. Let dry before applying E.MIX Polymer Modified Repair Mortar. The surface of smooth concrete receiving substrates should be scratched in order to create a rough surface for a mechanical key. It is recommended to brush a coat of E.MIX Bond Admix or a slurry coat of E.MIX Bond Admix with cement on smooth concrete receiving substrates.



Mixing

Mix a bag of E.MIX Polymer Modified Repair Mortar with the required amount of clean water. Mix thoroughly with a mechanical mixer for 3–7 minutes.



Application

Apply the E.MIX Polymer Modified Repair Mortar while the slurry bond coat is still wet and sticky. E.MIX Polymer Modified Repair Mortar must be compacted to the primed substrate by hard-pressed troweling. Exposed reinforcement should be completely encapsulated by the repair mortar. Finish the surface with steel, plastic or wood float, or with a damp sponge to achieve the desired surface texture.

Natural air curing is enough for E.MIX Polymer Modified Repair Mortar, water mist is not required for interior applications. In extremely hot or dry conditions, water mist is required.

STORAGE & PACKING

E.MIX Polymer Modified Repair Mortar is available in 25 kg bags.
Shelf life of 12 months if unopened and kept in sheltered and dry conditions.

HEALTH & SAFETY

E.MIX Polymer Modified Repair Mortar contains cement, which may produce an allergic effect. Material may irritate eyes and skin. In case of contact with eyes, rinse immediately with plenty of water, and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water. Please keep out of reach of children.

*Note: Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this Technical Data Sheet is for general guidance only. Saint-Gobain (Singapore) Pte Ltd reserves the rights to amend the contents of the data sheet at its sole discretion. (Nov '22)

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