

CONCRETE REPAIR SERIES

US25 REPAIR MORTAR

CLASS 25

- HKHA Class 25 Standard
- Low shrinkage
- High early and ultimate strength
- Chloride and carbonation resistance
- High build
- Light weight
- Excellent adhesion
- Environmental

US MIRACLE US25 REPAIR MORTAR is a high strength, class 25 polymer modified cementitious mortar for interior and exterior repairing of concrete. It is specifically designed for vertical and overhead repair work where a lightweight mortar is required. The mortar can be applied up to 60 mm thick as a single layer for vertical locations and 40 mm for overhead locations. Product complies with British standard and Hong Kong Housing Authority Repair Mortar Class 25 standard.



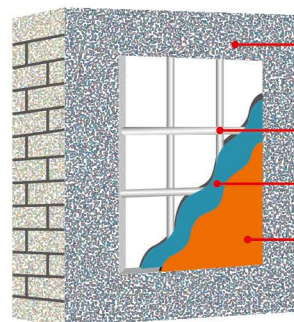
GRAY ●

USAGE

- For repair of spalling.
- For protect embedded steel reinforcement.
- For overhead locations or old concrete.
- For repair of voids and honeycombing.

SURFACE PREPARATION

- The substrate must be stable and cleaned from any kind of remnants, loose particles, dust, grease, etc.
- The edges of the repair area should be saw cut to a minimum depth of 10 mm.
- Expose and remove all loose rust from corroded reinforcement.
- Before applications, dampen the concrete surface with clean water and allow excess water to drain away.
- Prepare the Bond Coat Slurry primer by mixing 1 part **US MIRACLE MORTAR ADMIXTURE** with 1.5 part Ordinary Portland Cement by weight, then stir thoroughly using an electric mixer until a purple homogeneous slurry coat is obtained.



Concrete Ceiling or Wall

Reinforcement Steel

Slurry Coat - US MIRACLE MORTAR ADMIXTURE (SBR)

US25 REPAIR MORTAR or
US40 REPAIR MORTAR

- To apply a thin layer of slurry coat should be brushed onto the concrete surface. It also can be applied by brushing on the exposed steel reinforcement surface. The steel can be protected from rusting by the alkaline environment of the slurry coat. The **US MIRACLE US25 REPAIR MORTAR** should be applied onto the slurry coat area when the slurry coat is still purple in color, wet, and sticky.

MIXING

Adding a 20 kg bag of **US MIRACLE US25 REPAIR MORTAR** dry powder to approx 3.6 - 4.2 Liters of clean water and mix thoroughly using an electric mixer for 3 - 5 minutes.

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APPLICATION

The mixture of **US MIRACLE US25 REPAIR MORTAR** in the pot must be used within 1 hour. For application to all surfaces, **US MIRACLE US25 REPAIR MORTAR** must be well compacted on to the primed substrate by trowelling or gloved hand. Exposed reinforcement should be completely encapsulated by the mortar. Finish the surface with trowel to achieve the required surface texture. If sagging occurs or thicker section is required, it should be built up in multiple layers as appropriate.

CURING

Product has excellent water retention properties, water curing is normally unnecessary. Self curing of the applied plaster is considered adequate. Water curing is only required under extremely hot or dry condition.

STORAGE

To maintain product quality, store **US MIRACLE US25 REPAIR MORTAR** in a dry place on its original pallet with intact plastic wrapping, away from direct sunlight. Keep it elevated off the ground to avoid moisture and avoid overstacking. Improper storage may cause premature expiration or clumping. Shelf life is 12 months from the production date.

HEALTH AND SAFETY

This product is non-toxic and non-flammable. It contains cement, so avoid contact with eyes or prolonged skin exposure during use. Wash thoroughly after application. If it gets in your eyes, rinse immediately with plenty of water and seek medical attention. Keep out of reach of children.

COMPLIED STANDARDS

- Hong Kong Standard : HKHA MTS (2002/2004 Spec. Part D, Cl. 2.1.1 - 2.1.6)
- British Standard : TM 1- 6 is based on BS 6319
- French Standard: French VOC label A+ class

TECHNICAL DATA

TM1 - Compressive Strength at 28 Days	≥ 25 MPa
TM3 - Tensile Strength at 7 Days	≥ 1.5 MPa
TM4 - Elastic Modulus at 28 Days	9 - 15 GPa
TM5 - Bond Strength at 7 Days	≥ 1.5 MPa
TM6 - Shrinkage (Coutinho Ring Test)	No Crack
TM7 - Figg Air Permeability	≥ 150 Sec
Coverage (For Thickness of 15mm)	Approx. 1.2Kg/m ² /mm
Packaging	20 kg/Bag
Shelf Life	12 Months

* The provided data reflects standard laboratory testing outcomes, which may differ slightly based on the specific environmental and substrate conditions at the application site.

The information provided here is, to the best of our knowledge, accurate and reliable, based on our current understanding. No guarantees or warranties are offered regarding any recommendations or suggestions, as the conditions of use and labor involved are outside our control.



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