

ADMIXTURE SERIES

MORTAR ADMIXTURE

STYRENE BUTADIENE RUBBER (SBR)

- Improved water resistance to building surface
- Reduced shrinkage and cracking
- Increase mortar adhesion
- Enhanced abrasion resistance
- Improved flexural and tensile strength
- Excellent bonding strength to concrete, masonry, and wall panels

US MIRACLE MORTAR ADMIXTURE is a one-part polymer waterproofing additive. Formulated with an eco-friendly, high performance polymer emulsion, it delivers outstanding adhesion and water resistance when blended with cement and sand. Easy to apply and highly effective.

USAGE

This product functions as a bonding agent and high performance site mixed mortar admixture, suitable for:

- Repair mortars
- Base coat renders
- Screeds and grouts
- Masonry mortars
- Tile adhesives

SURFACE PREPARATION

Clear away dust, grease, and any loose debris. The surface must be clean, dry, and structurally sound. Large holes or cracks should be repaired beforehand. Keep the substrate slightly damp, but ensure no standing water remains.

MIXING

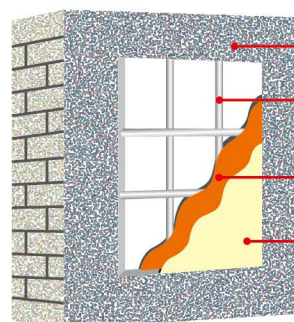
Measure **US MIRACLE MORTAR ADMIXTURE** and water according to the proportion table. Pour into a clean container, then add the solid materials (cement, sand, etc.) Mix thoroughly with forced action mixer, mix for 3-5 minutes until homogeneous.



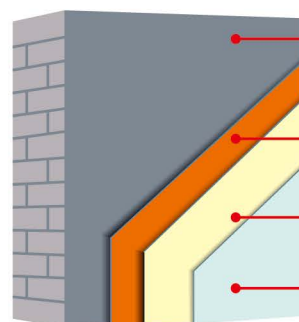
WHITE ○



47%
Solid Rate



- Concrete Ceiling or Wall
- Reinforcement Steel
- Slurry Coat - **US MIRACLE MORTAR ADMIXTURE (SBR)**
- US25 REPAIR MORTAR** or **US40 REPAIR MORTAR**



- Substrate
- Spatterdash with **US MIRACLE MORTAR ADMIXTURE (SBR)**
- 128 **US RENDER** or 132 **US RENDER WATERPROOF**
- 138 **AMERICAN PLASTER (PUTTY)** or 168 **AMERICAN PLASTER (FINISH)**

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MIXING

	Bond Coat Slurry	Render / Screed / Repair Mortar	Spatterdash	Heavy Duty Floor Screed
Cement	1 - 1.5 kg	50 kg	50 kg	50 kg
Sand	--	125 kg	100 kg	75 kg
Aggregate 6mm	--	--	--	75 kg
Mortar Admixture	1 L	9 L	10 L	6 L
Water	--	9 L	15 L	13 - 20 L
Thickness	~0.25 mm	~10 mm	--	~10 mm
Coverage	6 m ² / L	~1.3 m ² / L	~7-13 m ² / L	~1.7 m ² / L

Note: Optimal mixing ratios depend on cement quality, sand grading, moisture, and local conditions. While test data and coverage are based on controlled lab testing, actual jobsite results may differ.

APPLICATION

Use as a Bond Coat Slurry:

Apply the bond coat to the substrate with a stiff brush or roller. Proceed with subsequent work only when the surface becomes tacky. If the bond coat has fully dried, re-apply a fresh layer before continuing.

Use as a Render / Screed:

Renders and screeds modified with **US MIRACLE MORTAR ADMIXTURE** exhibit enhanced bonding strength, often eliminating the need for a bond coat. Nevertheless, for optimal performance, particularly when working with dry-mix screeds, applying an **US MIRACLE MORTAR ADMIXTURE** bond coat is strongly recommended.

Use as a Repair Mortar:

Cut the perimeter of the repair area to a minimum depth of 10 mm to prevent feather edging. Brush the **US MIRACLE MORTAR ADMIXTURE** bond coat slurry thoroughly over the prepared surface, ensuring all exposed reinforcement is fully coated. Place the repair mortar while the bond coat remains tacky.

Use as a Spatterdash:

Apply the spatterdash slurry evenly onto the substrate by flicking, spreading, or spraying, achieving a coverage of over 80%. Allow the material to cure for 2 to 7 days before applying subsequent renders.

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CURING

Mixtures containing **US MIRACLE MORTAR ADMIXTURE** generally need no special finishing or curing treatment. Water curing is only required under extremely hot or dry condition.

STORAGE

To maintain product quality, store **US MIRACLE MORTAR ADMIXTURE** in a dry place, away from direct sunlight. Do not store at a storage temperature below 5°C. Improper storage may cause premature expiration. Shelf life is 12 months from the production date.

HEALTH AND SAFETY

This product is non-toxic and non-flammable, though it may cause skin irritation for individuals with sensitive skin. Always wear appropriate protective gloves and goggles during handling. In case of eye contact, immediately flush with copious amounts of clean water and seek medical attention. Keep out of reach of children.

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.

COMPLIED STANDARDS

- British Standard: BS 6319, BS1881

TECHNICAL DATA

Component	Styrene Butadiene Rubber
Color	Milky White
Solid Content	~47%
Toxicity	Non-toxic
Supply Status	Aqueous Solution
Volatile Organic Compounds	≤ 9 g/L
PH Value	~7-8
Specific Gravity	~1 KG /Liter
Minimum Application Temperature	~5 °C
Packaging	200L, 18L /Drum
Shelf Life	12 Months

PHYSICAL DATA

Cement	50 KG
Sand	150 KG
Mortar Admixture	9 KG
Water	8 KG
Compressive Strength	55.4 MPa
Flexural Strength	7.18 N/mm ²
Tensile Strength	6.7 MPa
Bond Strength	1.9 MPa
Water Absorption	3%

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

