

TECHNICAL DATA SHEET



REPAIR MORTAR HS

Dual action shrinkage resistant, fibre reinforced single component thixotropic repair mortar

(Ref. MBPL / TDS / RepairMortarHS / 0524)

❖ Product Description

REPAIR MORTAR HS is high strength build up structural repair mortar formulated with graded fillers, additive, cement and fibres. It can be applied by trowel and wet spraying, suitable for overhead and vertical application with excellent bonding characteristics to steel reinforcement and concrete. It is specifically designed with double action shrinkage resistant, low permeability with thixotropic nature, ready to use product.

❖ Special Features

- Enhance strength and crack resistance
- Improved durability and long term performance
- Excellent resistance to impact and abrasion
- Excellent adhesion to various substrates
- Easy and convenient application



❖ Applications Areas

- Buildings
- Bridges
- Super large structures
- Irregular and mass infill areas
- Repair Jetties/ports and fire damaged concrete
- Repetitive loads bearing concrete areas.

❖ Advantages

- Easy & ready to use -only mix with water.
- Applicable for vertical and overhead areas
- Can applied by wet spray, trowel and hand.
- Cost effective
- Dual action shrinkage and permeability resistant.
- Excellent thixotropic with high thickness build up.

❖ Yield

- 13 - 14 litre per bag (25 Kg) with W : P ratio 0.15

❖ Coverage

- Approx. 12 - 14 sq. ft. / 25 kg bag mix at 10 mm thickness.

❖ Packing

- Available in **25 kg** bag.

❖ Shelf Life

- Factory sealed packs are best before 12 months from the date of manufacturing in unopened condition and stored in cool & dry area.

❖ How to Apply

Substrate Preparation

- Ensure the substrate to be repaired is clean and free of all contamination.
- Loose or friable materials, rust, scaling should remove before application those can reduce bond strength.

Pretreatment

- Mechanical tools (Saw cutting, wire brush or abrasive blasting)/ Water blasting to be used for removing loose, weak, damaged /deteriorated concrete.
- The concrete substrate must be saturated with water till saturated surface dry condition is achieved.
- Any excess water may be removed by cloth or oil free compressed air.

Mixing

- MYMIX Repair Mortar HS should be mixed mechanically, heavy duty hand drill with spiral agitator keeping low air entrainment add appropriate amount of water as per mix ratio W:P 0.15-0.16 by weight.
- Do not add extra water.
- Mix the material until good homogenous paste prepared approx. 3 minutes.

❖ Limitations

- Clean all tools immediately after use.
- Wear proper safety PPE's before application & mixing
- Apply in 10-40 degree climate temperature range only
- Do not add additional water / other material with this.
- Always mix powder in to water, don't mix water in to powder

❖ Technical Data

Application Properties

(Temperature : 23-27°C & Relative Humidity : 55%)

Testing Parameters	Result
Colour & Appearance	Grey free flowing powder
Pot Life	30-40 Minutes
Yield	13-14 Litre / Bag (25 Kg)
Mix Ratio (W : P by wt.)	0.13 - 0.15, 3.25 - 3.75 L / 25 bg bag
Mix Density (g/cc)	2.10 - 2.20
Recommended Thickness	Vertically: 10-50 mm, Overhead : 10 - 20 mm

❖ Physical Properties

Testing Parameters	Test Method	Typical Results
Compressive Strength-1 Day	ASTM C-109	≥20 Mpa
Compressive Strength-7Day	ASTM C-109	≥35 Mpa
Compressive Strength-28 Day	ASTM C-109	≥50 Mpa
Flexural Tensile Strength-7 Day	EN 196-1	≥6 Mpa
Flexural Tensile Strength-28 Day	EN 196-1	≥10 Mpa
Tensile Adhesion Strength-7 Day	ASTM C-882	≥9 Mpa
Tensile Adhesion Strength-28 Day	ASTM C-882	≥12 Mpa

❖ Precautions

- Keep out of reach of children.
- Wear suitable protective cloths, respirator and gloves.
- In case of contact with skin / eyes, wash immediately with plenty of water & seek medical help

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