

HIND PATCH R 100

SINGLE COMPONENT SHRINKAGE COMPENSATED READY TO USE FIBER REINFORCED THIXOTROPIC STRUCTURAL REPAIR MORTAR



DESCRIPTION

Hind Patch R 100 is a single component, shrinkage compensated, Fiber reinforced, cementitious based thixotropic structural repair mortar. It has an excellent bonding properties to steel reinforcement and to concrete. It conforms to **EN1504-3/R4**.

USES

It is used for repairing of reinforced concrete elements protecting it from sulphate and chloride attack. Can be used to repair underground and marine concrete structures. It is used for smoothing of concrete surface prior to application of waterproofing polymer coatings. High strength concrete elements can also be repaired with **Hind Patch R 100**. It is an ideal mortar for repairing of tie-rod holes used for fixing of shuttering.

ADVANTAGES

- Easy to use only water to be added and sprayed or trowel applied.
- Excellent bonding to concrete & steel.
- Non-sagging/thixotropic properties make it an ideal compound for overhead applications.
- Non -Shrink.
- High strength and waterproof.
- Low permeability.
- It high resistant to oils, sulphate and chloride attacks and freeze-thaw cycle.

APPLICATION

Substrate Preparation

The concrete surface to be properly cleaned and it should be sound and dry. It should be free of frost, curing compound membrane, waterproofing treatments, oil, laitance, other containments and dust. The area to be repaired should be free from all loose particles and properly saw-cut perpendicular to the repair surface. Worn out corroded reinforcement to be replaced with new ones and cleaned properly. The surface to be pre-wetted before application of **Hind Patch R 100**.

Mixing

Adequate quantity of clean water is taken in a container and properly gauged. **Hind Patch R 100** is added into the water slowly and continuously mixed with a electrical mixer (400-600rpm) fitted with a paddler for **4-5 minutes**, so that an uniform homogenous mix is obtained. The mix is allowed to rest for 3 minutes so that entrained air escapes out and finally remixed for another **30-40 seconds**.

Mixing Ratio:

Add **150 to 200 ml** of water slowly to **1 Kg Hind Patch R 100** to obtain the desired consistency required at site.

Method of Application

Hind Patch R 100 is now applied on the prepared surface with a steel trowel and that thickness of the mortar should be between 1- 5 cm. If the application of the mortar is required to be thicker than further layer is applied by the same process after 24 hours. When the mortar sets initially water is sprinkled on it and is finished with a steel/ wooden trowel. Open area applications are to be protected from rain and severe weathering conditions for the first 24-48 hours from the time when repairing gets finished with wet cloth or curing compounds.

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Coverage

25 Kg (One Bag) of Hind Patch R 100 with 4 Ltr of water added to it will yield approximately **12.5 Ltr of mortar** to cover **1 Sq. Mtr area at 12.5 mm average thickness**.

Cleaning of Tools - Clean all tools with water. Avoid hardening of the materials otherwise to be cleaned by mechanical abrasion.

PROPERTIES

Aspect	Grey Powder with micro fine fibers
Wet Density	Approx 2190-2200 Kg/m ³
Pot Life	45-60 minutes at 25± 2°C
Compressive Strength at 25°C (BS 1881: Part 116)	> 30 N/mm ² after 1 day > 100 N/mm ² after 28 days
Flexural Strength (BS EN 12390-5)	>10 N/mm ² after 28 days
Resistivity	12500 Ω cm
Water penetration (DIN 1048: Part 5)	< 5mm

Note:

- Higher temperature shortens the curing & working time , lower temperature extends the durations. Ideal Temperature is 25°C and 50°C Relative Humidity.
- Compressive Strength tested using 50mm X 50mm X50mm cube moulds.

SHELF LIFE

12 months from the date of manufacture in unpacked condition. Should be stored in a cool and dry place.

PACKING

Available in 25 Kg. HDPE Bag

HANDLING PRECAUTION

Hind Patch R 100 is non-toxic and ingestion is to be avoided. If contact with eyes occurs, wash well immediately with water and seek medical advice.

IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

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