

REPAIR MORTAR

Repair Mortar is a one component cementitious mortar, reinforced with fiber polymer modified, ready mix dry powder. It is specially designed for the repair of RCC members such as beams, columns, and slabs due to its good compressive strength. It is pre-mixed with special additives that give it excellent performance and adhesion to the host concrete/masonry surfaces.

PRODUCT DESCRIPTION

PRODUCT: Repair Mortar is a polymer-modified, shrinkage compensation mortar. It is dry powder requiring addition of clean water to produce a highly consistent hand and spray grade thixotropic fiber reinforced mortar for structural and load bearing repairs.

COMPOSITION	Grey cement, selected fillers, fiber, fine aggregate, polymers
COLOUR	Grey dry powder
TESTS	Tested according to ASTM C 109, & Internal test methods
FEATURES	<ul style="list-style-type: none">• It provides high bonding strength• Perfect bonding to concrete / steel• Easy to use, single layer hi-build application ideal for vertical / horizontal structural repairs• Shrinkage control feature and repair properly in the very first application
USES	<ul style="list-style-type: none">• Repair of damaged beams, columns and other RCC members• Patch repair of PCC and other non-reinforced masonry surfaces• Removal of surface defects due to demoulding• Used for repairing concrete surfaces: spelling, honeycombing, and cracking• For filling holes and honeycombs and repairing damaged edges of concrete components

TECHNICAL ANALYSIS (CONFORMS TO ASTM C 109, & INTERNAL TEST METHOD)

PARAMETERS	SPECIFICATIONS
CONSISTENCY	10 – 15 %
Pot Life	> 60 minutes
Density	1.7 – 1.9 g/ml
SETTING TIME	24 hours

MECHANICAL PROPERTIES

COMPRESSION STRENGTH	
COMPRESSIVE STRENGTH (AFTER 1 DAYS)	> 15.0 MPa
COMPRESSIVE STRENGTH (AFTER 3 DAYS)	> 25.0 MPa
COMPRESSIVE STRENGTH (AFTER 7 DAYS)	> 35.0 MPa
COMPRESSIVE STRENGTH (AFTER 28 DAYS)	> 50.0 MPa

GUIDANCE FOR USE

APPLICATION AREA	<ul style="list-style-type: none"> • Repair concrete cracks, curbs, steps, prestress panels, pipe, tunnels, sewers, loading docks, silos, retaining walls, culverts, catch basins, decorative mouldings, bridge columns, parapet walls, septic tanks, cold storage vaults, virtually any vertical or overhead concrete surface etc.
SUBSTRATE PREPARATION	<ul style="list-style-type: none"> • Remove all loose traces of concrete or mortar, dust grease oil etc. Remove damaged or contaminated concrete to obtain a fully exposed surface. • Non-impact vibrating cleaning method, e.g., grit or high-pressure water blasting is recommended. Cut the edges of the repair vertically. • Clean all exposed reinforcement. • Make sure the back of the rebar is also clean. • Where the reinforcing bars are corroded, cut the concrete back into the reinforcing bars.
MIXING	<ul style="list-style-type: none"> • Take approx.100-150 ml of clean water for 1 Kg of Repair Mortar in a clean bucket. It is very important that add material into water and not vice versa. • Stir continuously for 3-5 minutes by using mechanical stirrer or by hand to obtain a homogeneous lump-free paste.

APPLICATION

- Apply Repair Mortar by trowel. Apply the mix product directly to the prepared moist substrate or wet on wet onto the primed surface.
- A thin scrape coat or contact layer before building up to the required thickness will improve adhesion especially in case of hand application.
- Apply to the desired level of 12 to 50 mm thickness and level using screeding bar, trowel, or wooden board.
- Apply Repair Mortar in thicker layers in small patches or where there is additional reinforcement.
- Smoothing with a trowel for finishing with a float or sponge can be done as soon as the mortar starts to harden.
- Open/exterior application areas should be protected from the rain, wind, etc. aggressive weather conditions during the first 24 hours after finishing repair.

USAGE

- Strictly maintain water powder ratio

PRECAUTIONS

- To avoid fluctuations in efficiency, use consistent water temperature when mixing multiple batches.

PACK SIZE

- 25 Kg

SHELF LIFE

- 6 Months

STORAGE INSTRUCTIONS

- Store in cool, dry, and well-ventilated place away from heat source or direct sunlight.
- Keep away from water and damp area.
- Avoid using partially used material; open bags with partially used material should be kept in a bag with its mouth tied tightly with string to prevent lump formation.
- As temperature, humidity, water addition and other parameters vary from site to site; the above information should be treated as general guidelines.

HEALTH & SAFETY INFORMATION

- It contains only eco-friendly fillers and additives. However, being cement based, it is alkaline and hence it is advisable to avoid direct eye and skin contact with this. In case of eye contact, kindly wash with clean water at least for 15 minutes and seek medical help and keep it out of children reach.

Disclaimer: Technical information is based on knowledge and experience of accurate results. These results refer to the long-term application of the product in practice. Recommendations and suggestions are listed for guidance only. Since site conditions during the applications are beyond the manufacturer's control, hence it is also the responsibility of the end-user to ensure that the content in their possession is the latest case.