

Thixotropic Repair Mortar



Product Overview

CLASS Remix is a cement-based, high-strength structural repair mortar that is reinforced with polymers and fibers, offering waterproof and thixotropic properties. It is particularly suited for concrete repairs, thanks to its exceptional initial and ultimate strength, as well as its capacity for high application thickness in a single layer.



Application Domains

- For the repair of tie-rod holes, core cavities, and tension rods.
- Beveling at horizontal-vertical and vertical-vertical joints prior to waterproofing.
- In the interior and exterior areas of all structures
- In the restoration of exposed concrete
- In safeguarding concrete from the impacts of sulfate and chloride.
- In the restoration and upkeep of marine structures
- For the restoration of surfaces necessitating specialized coatings designed for light to moderate traffic loads.
- For the repair of impermeable and high-strength concrete on walls and ceilings.
- In the restoration of edges and corners
- It is utilized in both horizontal and vertical orientations.



Technical Specifications

Quality Standard Adherence	R4 Classification
Mixture Density	1,41 kg/lt
Water Mixing Ratio	4.25 – 4.75 liters of water for 20 kilograms of powder
Bending Strength	7 N/mm ² (28 days)
Compressive Strength	40 N/mm ² (28 Days)
Application Thickness	10–40 mm
Usage Duration	30 Minutes

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original products rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.



Advantages

- It is a single-ingredient product.
- It is straightforward to prepare and execute.
- It can be applied in thicknesses ranging from 10 to 40 mm at once.
- It exhibits exceptional adhesion performance and strength.
- It exhibits resistance to chlorine and sulfate assaults.
- It does not fracture, diminish, droop, or fail during application.
- It is impervious to water.
- It allows the passage of water vapor.
- It possesses significant thixotropic (fluid) characteristics.
- Fireproof.



Surface Preparation

The surface must be devoid of dust, oil, paint, dirt, silicone, and other contaminants that could hinder adhesion. To achieve a smooth surface, any loose or damaged concrete should be removed using chisels or leveling tools. If required, the application surface should be cleaned through sandblasting, pressurized water, or air blasting. Rust on the reinforcement must be eliminated, and new reinforcement should be incorporated if necessary. It is advisable to apply CLASS Primer T copolymer primer agent to the surfaces prior to application. If primer application is omitted, the surface should be moistened, ensuring no water remains on the surface. On surfaces where primer has been applied, a waiting period of 5 to 10 minutes should be observed before applying the repair mortar to ensure proper adhesion.

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Mixture

20 kg of CLASS Remix powder is combined with 4.25–4.75 liters of clean water and mixed for 3–4 minutes using a low-speed mixer or drill until the mixture is homogeneous and free of lumps. This blend is then allowed to rest for 5–10 minutes, after which it is mixed again for 1–2 minutes before use. It is advisable to consume the mixture from the container within 30 minutes. No additives or chemicals should be incorporated into the ready-to-use mixture thereafter.

Application Details

CLASS Remix, once prepared for application, should be distributed evenly across the surface with a steel trowel, ensuring a consistent thickness throughout. Following the drying period, the surface should be smoothed using a plastic trowel or a damp sponge. If additional coats are necessary, allow a 3-hour interval between applications. The surface must be moistened prior to the application of the subsequent coat. The mixture should be stirred periodically to avoid crust formation. Prior to waterproofing, a bevel with a radius of 40 mm may be applied at the junction of the floor and wall.

Consumption

Total weight for 1 mm thickness: 1.9–2.3 kg/m² (varies based on surface depth and texture.)

Colour:

White and Gray

PACKAGING

20 kg Kraft bag

Shelf life

In its unopened packaging, it can be stored for 12 months in a cool, dry location, shielded from sunlight, at temperatures ranging from +10°C to +25°C.

Attention

Avoid applications when the ambient temperature is below +5°C or above +30°C. Do not apply in direct sunlight, rain, or wind. Refrain from applying on surfaces that have been exposed to sunlight for extended periods, are frozen, or are at risk of freezing within 24 hours.

R10: Keep away from children.

R20/22: Harmful if inhaled or ingested.

R52/53: Toxic to aquatic life; may result in long-term detrimental effects in the aquatic ecosystem.

R65: Harmful. May result in lung damage if ingested.

S7: Store in a securely sealed container.

S24/25: Avoid contact with eyes and skin. S28: In the event of skin contact, rinse immediately with ample water.

S29: Do not release into the sewage system.

S46: If ingested, seek medical attention promptly and present the container or label.

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