

Repair Mortar-NSC

Fiber reinforced, Polymer Modified ,Non-Shrink Cementitious Repair Mortar

DESCRIPTION:

Repair Mortar- NSC is a high strength, fiber reinforced, polymer modified, non-shrink thixotropic mortar specially formulated for patching and repairing concrete, masonry, renders and bricks at vertical and horizontal surfaces .Offering superior bonding to substrates, high abrasion resistance, simplification of works and water repellency, no sagging, excellent finish and increased resistance to freeze / thawing cycles. Can be applied from 2mm to 100mm thickness.

USES:

- For all structural concrete repairs such as:
 - columns
 - slabs
 - beams
 - ceiling
- Smoothing, repairing and leveling of walls
- Repair of concrete surfaces, edges of steps and all types of load bearing situations.
- Can be used as a screed for flooring in dry internal areas.

FEATURES AND BENEFITS:

- Minimal shrinkage and outstanding resistance to crack.
- Easy to apply, single component, requires only addition of water.
- Thixotropic properties allowing extra high build for vertical and overhead applications.
- Suitable for internal and external application.
- excellent adhesion to the substrate.
- Exhibits high mechanical strength
- Cost effective , hand applied

SURFACE PREPARATION:

- All damaged and weak concrete should be cut back to reach sound concrete and/or to a minimum depth of at least 10 mm.
- Corroded steel reinforcement should be grit blasted to remove all rust traces. In case of significant loss in the steel reinforcement cross section, the steel should be replaced. Remove all concrete form around exposed steel reinforcements by 10 mm thickness.
- The prepared area should be cleaned thoroughly by brush and/or compressed air.
- All grit blasted steel reinforcements should be primed within 2 - 4 hours with one or two coats of zinc rich epoxy coating.

Priming : in most instances priming will not be needed but for vertical surfaces and very porous concrete Apply one coat of Blato Bond -300AC acrylic primer to allow for good bonding and adhesive purpose.

Areas to be repaired with **Repair Mortar- NSC** should be soaked with clean water before applying the repair mortar.
All excess water should be removed .

MIXING & Installation:

- Approximately 3.75-4 liters of water is required to mix 25 kg of the Repair Mortar- NSC Powder. Add the powder slowly to the required amount of clean, cold water, stirring continually.
- To ensure proper mixing, a mechanically powered mixer with suitable paddle should be used.
- Repair Mortar- NSC can be applied to prepared substrates by trowel or hand.
- The mixed mortar should be applied using firm pressure to fully compact the mortar to ensure good adhesion with the steel reinforcements and the substrate.

- Finishing and leveling should be carried out initially by wooden or plastic float. Final finishing should be carried out using steel float.

RECOMMENDATIONS :

- Do not mix the product with dirty or salty water.
- Use of the material in temperatures outside the recommended range, as well as excessive use of water may compromise the qualities of the mortar.
- During the application, temperature should be within +5 ° C and +35 ° C.

TECHNICAL DATA

Type of cement	ASTM C150 TYPE I
Appearance	Gray powder
Max. aggregate size	4mm
Density	1.8 kg/L (dry) 1.9 kg/L (wet) for 16-18% water demand
Compressive strength ASTM C109	>10 Mpa at 1 day >25 Mpa at 7 day >33 Mpa at 28 day
Flexural strength ASTM C348	>4 Mpa at 28 day
Adhesive strength EN 1015 – 12	>1 Mpa at 28 day on concrete surface
Chloride content	Nil
Shrinkage	Nil
Water Retentivity	Min. 95%
Pot time	1 hours

CLEAN UP INSTRUCTIONS:

Clean all tools and surrounding areas and surfaces immediately with water, ensuring no waste or contaminated water ends up in drains or waterways.

PACKAGING:

- 25 kg bags
- 50 Kg Bags

SHELF LIFE / STORAGE:

- Factory packed bags of **Repair Mortar- NSC** carries a shelf life of 12 months, if stored in cool & dry place. However, as temperature, humidity, water addition & other parameters vary from site to site , the information should be treated as a general guideline.

ENVIRONMENTAL & SAFETY

PRECAUTIONS:

- The product **Repair Mortar- NSC** contains cement which reacts as alkaline with water and perspiration, and may cause allergies and/or irritation.
- Always wear appropriate personal protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, flush with plenty of clean water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- For further information consult the mortar Material Safety Data Sheet.