

mart-FC MORTAR 3mm

POLYMER MODIFIED CONCRETE FAIRING COAT MORTAR

DESCRIPTION

mart-FC Mortar 3mm is a polymer modified single component cementitious fairing compound, designed for application in thin layers up to 3mm to produce a fair-faced appearance and finish to concrete and masonry surfaces. Finished surfaces are suitable for the additional application of protective or decorative coating applications.

CHARACTERISTICS/ADVANTAGES

- Easy to use, just add clean water.
- No curing membrane necessary
- Can be applied up to 3mm in a single application.
- Non-corrosive will not attack reinforcement.
- Excellent adhesion to concrete
- Non-shrink
- Durable repair
- Sprayable
- Can be left exposed as finished final coat.

TYPICAL USES

- Infill over surface imperfections on concrete.
- Concrete pore and blow hole sealer
- Suitable for interior and exterior applications
- For use of vertical applications
- Repair to bleeding & sand streaking defects on off shuttered concrete surface.

PRODUCT DATA

- **Appearance:** Powder
- **Colour:** Grey
- **Packaging:** 25 kg plastic lined polypropylene bags
- **Storage Condition:** Store in a dry cool area, temperature between 5 - 25°C
- **Shelf Life:** 12 months in original unopened bags, when store in the correct storage conditions.



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APPLICATION PROCEDURE

Surface Preparation:

- Concrete must be structurally sound
- Surface must be clean, free of old caulk, dirt, dust & other foreign material.
- Remove all loose materials and concrete.
- Any cracked or weak concrete should be removed and repaired prior to application of **mart-FC Mortar**.
- Surface imperfections, voids and blow holes should be filled by scraper coats as a separate application.
- Expose fine aggregate by light scabbling with a wire brush or grit-blasting.
- For repairs on existing concrete, all paint, curing compounds and sealing membranes must be completely removed.
- All prepared areas for application should be thoroughly soaked with clean water prior to application.

Mixing:

- Use cool, clean water, clean tools, and clean containers.
- Add maximum of 6.25 lt of cool, clean water into the clean container.
- Mixing with a mechanical mixer at a slow speed not exceeding 500 rpm, start adding **mart-FC Mortar 3mm** slowly whilst mixing.
- Normal mixing time minimum of 3 minutes. Mix to a uniform lump free consistency.
- Mix so as to entrain as little air as possible.
- Use without delay.
- **mart-Keybond** can be added to the mixing water for better adhesion, also if water repellency is needed.

Priming:

- No priming necessary for concrete surface dressing.
- For permanently wet areas prime with **mart-Keybond**.

Application:

- Concrete must still be fully saturated.
- **mart-FC Mortar 3mm** can be applied by brush, roller, sponge, spray or by trowel.
- For localised and minor voids, a pallet knife can be used.
- When a fair faced finish is required, **mart-FC Mortar 3mm** should be applied to the prepared surface using a stainless-steel trowel to provide a smooth, polymer rich surface finish.
- Trowel marks can be removed by using a wooden float as soon as the product is stabilised.
- A small amount of water can be flicked onto surface for a very smooth surface while using the wooden float.
- 2nd coat optional.

Application Properties:

- Minimum repair depth = featheredge
- Maximum repair depth = 3mm

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CURING

- In moderate temperatures **mart-FC Mortar 3mm** does not require any form of curing
- If surface is exposed to direct sunlight and or drying winds normal concrete curing processes should be adhered to.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Mix Ratio	4.4 - 6.25 lt
Ambient temperature at mixing	25°C
Yield	11.5 – 13 lt
Compressive Strengths 28 days (ASTM C-109) & (SANS 50196 – 1*)	≥ 20Mpa 4.4lt
Flexural Strength 28 days (SANS 50196 – 1 *)	≥ 5Mpa 4.4lt
Final Set (SANS 50196- 3*)	± 120min 4.4lt

* Test modified, Prism made out of finished mart-FC Mortar 3mm not mixed with DIN sands.

COVERAGE (FOR ESTIMATING PURPOSE ONLY)

- at 1mm thick with 4.4 lt – 11.5 m²/25kg bag
- at 1 mm thick 6.25 lt – 13m²/25 kg bag

CLEANING AND STORAGE

- Wet product can be cleaned off equipment with water and soap.
- Store in a cool dry place.
- 12-month Shelf life from date of manufacturing if kept in the original packaging.

PACKAGING

mart-FC Mortar 3mm comes in a 25kg plastic lined polypropylene bag.

HEALTH AND SAFETY

In all cases, consult the Material Safety Data Sheet before use.

Do not breathe dust. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/ protective clothing/ eye protection. Wash face, hands and any exposed skin thoroughly after handling. For further health and safety information refer to the product MSDS.

Disclaimer: The information contained in this document is given to the best of Mart Solutions' knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving Mart Solutions' liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. Mart Solutions specialists are at the disposal of the users in order to help them with any problems encountered.