

PRODUCT DATA SHEET

Sika MonoTop® FC

CEMENTITIOUS FAIRING COAT REPAIR MORTAR FOR REPAIR OF OFF-FORM CONCRETE IMPERFECTIONS FROM 0-3MM.

DESCRIPTION

Sika MonoTop® FC is a one component, polymer modified, cementitious repair mortar formulated blend of very fine natural aggregates, polymers and colours to dry similar to off-form concrete. Sika MonoTop® FC is part of the MonoTop System for concrete repair and protection.

USES

Sika MonoTop® FC is thin applied cementitious mortar used for repair of the following applications:

- Filling honeycombed or surface damaged off form concrete.
- Levelling blowholes and other concrete surface imperfections.
- Re-profiling of damaged corners and edges.
- As fairing coat before application of other coatings.

CHARACTERISTICS / ADVANTAGES

- One component, mix with water only
- Dries similar to off-form concrete
- Very thin layer applications possible
- Excellent workability.
- Good substrate adhesion.
- Good mechanical strength.
- Can be sanded to a smooth finish.

APPROVALS / CERTIFICATES

Qld Dept of Transport and Main Roads (TMR)
Product Index for Bridges and Other Structures
Section 5. Registered and Conforming Products
Part 5.34. Repair Materials (Concrete) – Mortars
Registered product: MRTS72, MRTS73

PRODUCT INFORMATION

Packaging	15kg bag
Shelf life	12 months in unopened original packaging
Storage conditions	Store in cool dry conditions below +25°C.
Appearance and colour	Grey cement based powder, similar to Off-Form Concrete when cured.
Density	Approx. 1700 kg/m ³ - wet density.

APPLICATION INFORMATION

Mixing ratio	Approx. 4.1 lt of water per 15kg bag.
Yield	Approx. 11.0 litres when mixed with 4.1 litres of water.
Layer thickness	0mm to 3mm.
Pot Life	Approx. 20 minutes @ 23°C
Waiting time to overcoating	Approx. 48 hours curing @ 23°C

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

Rapid drying out due to sun or strong wind must be avoided and protect the area of application if required. To aid curing protect fresh surfaces with water spray, wet hessian or polythene sheets for a minimum of 3 days. If no further coatings are to be applied to the finished surface, a membrane curing compound may be used.

If overcoating Sika MonoTop® FC with decorative or protective coatings it must not be finished off with steel or plastic implements. The surface must have a finish compared to fine sandpaper.

Sika MonoTop® FC will not bridge live cracks.

Do not apply Sika MonoTop® FC to a dry substrate.

Sika MonoTop® FC is not suitable for use as an adhesive for tiles.

High quality, long term repairs can only be achieved if they are carried out conscientiously by experienced applicators giving adequate detail to surface preparation, priming of concrete and steel, mixing of repair mortars, application and curing.

ECOLOGY, HEALTH AND SAFETY

Ensure the use of correct PPE while mixing the material including protective gloves, clothing, eye protection and hearing protection. Change soiled work clothes and wash hands before breaks and after finishing work.

Local regulations as well as health and safety advice on packaging labels must be observed.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

All surfaces must be clean, and free from any loosely adhering particles, or contaminants such as dirt, oil, dust, grease, etc.

Cement laitance should be removed by sandblasting, scabbling, etc. to allow for maximum adhesion. All blowholes, honeycombing etc. should be filled with Sika MonoTop® FC mixed to mortar consistency. Dry and absorbent substrates should be thoroughly pre-wetted, and the surface allowed to dry (to achieve what is referred to as a 'saturated surface dry' condition) before application commences.

MIXING

For larger volumes, pour approximately 4.1 litres of clean fresh water into a suitable mixing container and slowly add all of the powder while mixing continuously with a Sika mixing paddle attached to a slow speed (500 r.p.m) electric drill. Reduce speed if required so not to untrap air into material. Thoroughly mix until a smooth, lump free consistency is achieved - minimum mixing time of 3 minutes is recommended.

For small volumes and partly mixing by hand, add 3 volumes of the Sika MonoTop® FC to 1 volume of clean fresh water and mixed thoroughly until fully lump free consistency is achieved.

The consistency can be adjusted by using less water if desired.

APPLICATION

Apply Sika MonoTop® FC to the prepared and dampened surface according to general plastering methods using a spatula, trowel or similar. Maximum thickness in a single layer = 3mm. If the Sika MonoTop® FC is to be over coated, as soon as the mortar layer has initially hardened, a fine gripping surface, comparable to sand paper, should be achieved by evenly rubbing down with a dry sponge or similar.

CURING TREATMENT

In moderate ambient conditions Sika MonoTop® FC does not require curing. On hot substrates and windy conditions protection to the substrate and curing may be necessary. If curing is required cure as soon as possible using in line with sound concrete practice.

CLEANING OF EQUIPMENT

Clean all tools and equipment with water immediately after use. Hands and skin should be cleaned with warm soapy water. Hardened Sika MonoTop® FC can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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April 2023, Version 01.03

020302050010000060

