

Sika MonoTop[®] FC (AU)

Thin layer sealing and levelling mortar

Description Sika MonoTop FC (AU) is a one component, polymer modified, cementitious levelling mortar containing reactive silica fume. It is based on a formulated blend of very fine natural aggregates. Sika MonoTop FC (AU) is part of the MonoTop System for concrete repair and protection.

Uses Sika MonoTop FC (AU) is used as a thin layer levelling and protective sealing mortar on concrete, mortar and masonry surfaces.
Typical applications are:

- Filling honeycombed or surface damaged concrete.
- Levelling off surface imperfections caused by faulty formwork.
- Re-profiling of damaged corners and edges.
- As fairing coat before application of other coatings.
- For use in conjunction with the Sika MonoTop Repair System to provide a smooth, even and uniform finish.

Advantages

- One component, mix with water only.
- Very thin layer applications possible.
- Excellent workability.
- Good substrate adhesion.
- Good mechanical strength.
- Non-toxic, non-corrosive.
- Improved sulphate resistance.
- Good resistance to water and chloride ion penetration.

Product Data

Form: Light Grey powder.

Colour: Mid Grey when applied.

Packaging: 15 kg multi-wall paper bags.

Storage & Shelf Life: 12 months in unopened original packaging when stored in cool dry conditions below +25°C.

Technical Data

Density: Approx 1.9kg/litre - wet density of freshly mixed mortar.

Application temp.: Minimum 5°C to maximum 30°C.

Bond strength: 2.5 MPa approx.

Pot life: 20 minutes approx. at 20°C.

Application thickness: 0 – 3.0mm.

Yield: 15 kg = 8-9 litres when mixed with 5.0 litres of water.

Mixing ratio by weight: 3.8 to 5 litres per 15 kg bag (approx).

Application Conditions

Surface Preparation

- 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.
- Any existing paints or coatings must be completely removed.
- All blowholes, honeycombing etc. should be filled with Sika MonoTop FC (AU) mixed to mortar consistency. Brick and blockwork surfaces should be flush pointed with the same mix.
- 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	<ul style="list-style-type: none"> • Pour 3.8 – 5.0 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. • Thoroughly mix until a smooth, lump free consistency is achieved - minimum mixing time of 3 minutes is recommended. • The consistency can be adjusted by using less water if desired.
Application	<ul style="list-style-type: none"> • Apply Sika MonoTop FC (AU) to the prepared and dampened surface according to general plastering methods using a spatula, trowel or similar. Sika MonoTop FC (AU) can also be applied using air driven spray equipment. • Maximum thickness in a single layer = 3mm. • If the Sika MonoTop FC (AU) 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.
Cleaning	<ul style="list-style-type: none"> • Clean all tools and equipment with water immediately after use. • Hands and skin should be cleaned with warm soapy water. • Hardened Sika MonoTop FC (AU) can only be removed mechanically.
Important Notes	<ul style="list-style-type: none"> • Rapid drying out due to sun or strong wind must be avoided. 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. Refer to Antisol data sheet for further information. • If overcoating Sika MonoTop FC (AU) 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 (AU) will not bridge live cracks. • Do not apply Sika MonoTop FC (AU) to a dry substrate. • Sika MonoTop FC (AU) 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.
Notes	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.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Safety Instructions	
Protective Measures	<ul style="list-style-type: none"> • To avoid rare allergic reactions, we recommend the use of protective gloves. 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.
Important Notes	<ul style="list-style-type: none"> • Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. • Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.
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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