

SikaFill® MFR

Styrene-acrylic copolymer waterproof liquid membrane coating with internally reinforced Micro-Fibres

Product Description

SikaFill® MFR is a one component, water-base, liquid elastic waterproofing coating, based on styrene-acrylic copolymers with integral Micro-fibre reinforcement. SikaFill® MFR coating system is formulated to provide enhanced tensile strength of the coating product and forms a flexible, tough and durable reinforced protective waterproofing membrane layer. It is suitable for use in hot and tropical climates.

Uses

SikaFill® MFR can be used for different types of application:

- Waterproofing of Flat (Horizontal) Roofs and on other types of substrates :

- Concrete decks / roof
- Asbestos roofs
- Roof tiles (either concrete or clay type)
- Cement Mortars
- Metal / Zinc roofs
- Tiles
- Waterproofing layer under tiles (e.g. bathroom & balcony)
- Vertical Wall coating against surface water infiltration
- Bricks with plaster layer
- Mortars
- Roof tiles
- Repair of tiles and zinc eaves, gutters

Characteristics / Advantages

- Impervious to rain and water splashes
- An elastic, waterproofing membrane
- High weather resistance and UV resistance
- Easy to apply by using brush and/or roller
- Good penetration in cracks, and resistant to cracking
- Able to absorb expansion and shrinkage movement without cracking
- Good bonding to various substrates
- Environmentally friendly
- Water-base and non-flammable
- Odourless and Non toxic

Construction



Product Data

Type	A water-base, styrene acrylics copolymer liquid membrane system with internal Micro-Fibre reinforcement.
Packaging	5kg and 20kg plastic pail
Appearance / Colours	Standard Colours: White(~RAL9003), Grey(~RAL7004), Mid-Grey(~RAL7042), Brown(~RAL8004), Red(~RAL3013), Sand & Light Blue Also available in other colours upon request (subject to minimum order quantity)
Form	Viscous Liquid

Storage

Storage Conditions / Shelf Life	Up to 18 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.
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Technical Data

Density	Approx. 1.35 kg/l
Solid Content	Approx. 65% by weight

Mechanical / Physical Properties

Tensile Strength	~ 2.30 N/mm ²	(ASTM D412:92)
Elongation at Break	~ 120%	(ASTM D412:92)
Water Vapour Transmission	~ 20 gm / sqm / 24hr	(ASTM E96:95)

System Information

Built Up System	Minimum 2-3 coats of SikaFill® MFR
Consumption	Minimum 1.0 – 1.5 kg/m ² in 2-3 coats

Application Details

Mixing Method	Mix SikaFill® MFR manually or use a low speed mixer until it is completely homogeneous prior to application
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Application Method / Tools	Apply with a short haired wool roller or brush <ul style="list-style-type: none">■ Apply a generous base coat of SikaFill® MFR with consumption of ~0.5kg/m²■ When touch dry (approx. 1-2hours), apply another layer of SikaFill® MFR with consumption of ~0.5kg/m²■ Apply another coat of SikaFill® MFR as a final coat with consumption of ~0.5kg/m²■ Please note that before applying an additional layer, the previously applied layer will have to be completely dry
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Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically or by using appropriate solvents to soften the cured materials before mechanical removal.
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Notes on Application/ Limitations	<p>Product should not be used in places where it is in permanent contact with water, due to storage, flooding or condensation.</p> <p>This product is able to use as a finishing paint</p> <p>Do not place any sharp or piercing objects on the finish cured product or treatment</p> <p>Not recommended for constant or very long immersion in water</p> <p>At least minimum 2 coats must be applied as the waterproofing system</p>
Curing Details	<p>Tack free after approx. 1-2 hours</p> <p>Total full cure approx. 72 hours (30°C)</p>
Value Base	<p>All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to differences in sample preparation, testing methods, or other circumstances beyond our control.</p>
Health and Safety Information	<p>For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.</p>
Legal Notes	<p>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.</p>



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