

PRODUCT DATA SHEET

SikaTop® Seal-107 Fibre MY

Cementitious waterproofing mortar with synthetic resins

DESCRIPTION

SikaTop® Seal-107 Fibre MY is a one component waterproofing mortar, cement based, selected aggregates, recycled material and admixture.

USES

SikaTop® Seal-107 Fibre MY is used for:

- Rigid waterproofing of water tanks, bathrooms, toilets, etc.
- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Exterior waterproofing of basement walls in new construction and refurbishment
- Sealing fine "hairline" cracks in concrete structures not subject to movement
- Sealing internal basement walls against dampness
- Pore / blowhole filling

Areas of application

- Potable concrete water tanks
- Basements
- Terraces and balconies
- Retaining walls
- Fountains
- RC gutters and planter boxes
- Bathroom floors

PRODUCT INFORMATION

| | |
|----------------------------|---|
| Composition | Based on cement, selected aggregates, recycled material and admixture |
| Packaging | 20 kg bag |
| Appearance / Colour | Grey powder |
| Shelf Life | 6 months from date of production |
| Storage Conditions | Stored properly in original, unopened and undamaged sealed packaging in dry conditions. Protect from direct sunlight, rain, water and moisture. |
| Maximum Grain Size | ~0.5 mm |

CHARACTERISTICS / ADVANTAGES

- Easy mixing and application.
- Excellent adhesion on healthy support.
- Waterproofing, but permeable to water vapour.
- Slightly more flexible than a normal mortar.
- It slows the progression of carbonation.
- Does not damage reinforcement or metallic elements.
- Non-corrosive, non-toxic, non-flammable

CERTIFICATES AND TEST REPORTS

Approved for contact with potable water,

- SPAN - MS 1583:Part 1:2003
- SIRIM - MS 1583:Part 1:2003, SS 375 : Part 1 : 2001, BS 6920-1:2014

TECHNICAL INFORMATION

| | | | |
|----------------------------------|---|-----------------------|---------------------|
| Compressive Strength | 3 days | ~12 N/mm ² | (EN 12190) |
| | 28 days | ~25 N/mm ² | |
| Tensile Strength in Flexure | 3 days | ~3 N/mm ² | (EN 12190) |
| | 28 days | ~5 N/mm ² | |
| Tensile Adhesion Strength | 7 days | ≥ 1 N/mm ² | (EN 1542) |
| | 28 days | ≥ 1 N/mm ² | |
| Coefficient of Thermal Expansion | ≤ 20 µm/m·°C (+20 °C / +50 °C) | | (BS EN 1770:1998) |
| Permeability to Water Vapour | < 5 m | | (EN ISO 7783-2018) |
| Water Permeability | W < 0.1 kg/m ² ·h ^{0.5} | | (BS EN 1062-3:2008) |

APPLICATION INFORMATION

| | | |
|----------------------------|--|--|
| Mixing Ratio | Application | Water per 20 kg bag |
| | Trowel | 3.6 L |
| | Brush | 4.0 L |
| Consumption | At least 2 coating layers are required. It might be necessary to reach 3 layers in areas where there are extremely strong leakage. As a guide: Waterproofing; depending on the column water height: | |
| | Height < 1 m | Up to 1.5 kg/m ² per layer |
| | Height > 1 m | Up to 2 kg/m ² per layer |
| | The maximum consumption per layer should not exceed 4 kg/m ² (2 mm thickness). | |
| Layer Thickness | Minimum | 1 mm |
| | Maximum | 2 mm |
| Ambient Air Temperature | Minimum | +5 °C |
| | Maximum | +35 °C |
| Pot Life | ~60 minutes at +20 °C | |
| Waiting Time / Overcoating | Waiting Time | The waiting time between coats is 4–6 hours (at +30 °C). |
| | Overcoating | For overcoating with other cementitious materials, allow the second coat to harden for at least 3 days prior to overcoating. For use in water-retaining structures or for applying renders over it or for overcoating with non-cementitious materials, please contact Sika's Technical Service Department. |
| | Fresh Mortar Density | ~2 kg/l |

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.

LIMITATIONS OF USE

- SikaTop® Seal-107 Fibre MY is not advisable to mix larger amounts of which can be placed in about 60 minutes.
- The addition of extra water beyond the stated mixing ratio is not recommended. Excess water will weaken the mechanical properties and significantly reduce the SikaTop® Seal-107 Fibre MY capability of the cured material.
- For the product to act efficiently, apply at least 2 coats, and a total minimum thickness of approx. 2 mm.
- The minimum consumption per coat of SikaTop® Seal-107 Fibre MY is 1.2 kg/m² up to 2 kg/m².
- SikaTop® Seal-107 Fibre MY is not a decorative treatment and may display signs of "blooming" after rain

or in damp weather. This does not affect the performance of the coating, in any way.

- Avoid application in direct sun and/or strong wind. Apply only to sound, prepared substrates. Do not exceed maximum layer thickness.
- Protect freshly applied material against direct sunlight, strong winds, rain and dust for at least 6 hours.
- SikaTop® Seal-107 Fibre MY does not provide a trafficable finish.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Electrical mixer with spiral mixing paddle, trowel and brush

SUBSTRATE QUALITY

The concrete "pull off" (tensile adhesive) strength must be > 1.0 N/mm².

SUBSTRATE PREPARATION

Remove deteriorated concrete by mechanical means, sandblasting or pressurized water, until a healthy and drought, cohesive substrate is obtained. The substrate must be sound, clean, free of grease, oil, friable parts, laitance.

In case of irregularities in the substrate, it can be first regularized with Sika MonoTop®-222 Patch Repair or another from SikaMonotop® range.

All singular points should be treated first with Sika MonoTop®-222 Patch Repair or another from Sika MonoTop® appropriate range.

Before applying SikaTop® Seal-107 Fibre MY, the substrate must be moistened until saturated without flooding it.

MIXING

Mixing should be carried out using a low-speed electric mixer at 300–600 rpm. Use a wide, clean container and pour in the required amount of water first. Gradually add SikaTop® Seal-107 Fibre MY powder while mixing for 3 minutes at slow speed until a smooth and homogeneous consistency is achieved. Allow the mixture to rest for 5 minutes. After resting, remix for 1 minute at high speed before application to ensure full activation and uniformity of the material.

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Product Data Sheet
SikaTop® Seal-107 Fibre MY
May 2026, Version 02.01
020701010010247090

APPLICATION

Trowel Application

The mixed mortar shall be applied using a notched trowel with 3–4 mm serrations. The first coat is to be spread using the serrated edge to create uniform grooves, ensuring consistent thickness and coverage. Once the first layer has hardened sufficiently—typically after 4 to 6 hours depending on ambient conditions—the second coat shall be applied using the straight edge of the trowel, following the direction of the grooves to achieve a smooth, continuous finish. Care shall be taken to avoid excessive material build-up at corners, cavities or crevices, as such accumulation may lead to shrinkage or fissures during curing.

Brush Application

The substrate shall remain damp from prior saturation without any standing water. The first coat of SikaTop® Seal-107 Fibre MY is applied using a stiff plastic-bristled brush in a single, consistent direction. After allowing the coating to harden for approximately 4 to 6 hours at temperatures above 20 °C, the second coat shall be applied in a crosswise direction to ensure complete coverage and improved bonding.

CURING TREATMENT

Generally, not required but precautions should be taken for applications done directly under sunlight and windy conditions.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

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.

SikaTopSeal-107FibreMY-en-MY-(05-2026)-2-1.pdf