

PRODUCT DATA SHEET

Sikafloor®-3159

Fast curing polyurethane primer for Sika Comfortfloor® Systems

DESCRIPTION

Sikafloor®-3159 is a 3-part, low viscosity, fast curing, polyurethane primer which can be used as a primer for the Sika Comfortfloor® systems.

USES

Sikafloor®-3159 may only be used by experienced professionals.

- Primer for the Sika Comfortfloor® systems, specially suitable for the Sikafloor® Curing-by-Design concept (complete system in 1 day)
- For medium to high absorbent substrates
- Interior use only

FEATURES

- Fast curing
- Low viscosity
- Good penetration
- Easy application
- To be used as a scratch coat

PRODUCT INFORMATION

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|------------------------------|-------------------------------------|--------------------|
| Composition | Polyurethane | |
| Packaging | Part A | 7,5 kg |
| | Part B | 2,5 kg |
| | Part C: Sikafloor®-3159 Snapbooster | 0,140 kg |
| | Part A + B + C | 10,14 kg |
| Appearance and colour | Part A - resin | Light grey liquid |
| | Part B - hardener | Transparent liquid |
| | Part C - snapbooster | Transparent liquid |
| Shelf life | 12 months from date of production | |

Storage conditions The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.

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| Density | Part A | 1,65 kg/l |
| | Part B | 1,16 kg/l |
| | Part C | 1,05 kg/l |
| | Part A + B + C | 1,54 kg/l |
| Solid content by mass | 100% | |
| Solid content by volume | 100% | |

APPLICATION INFORMATION

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| Mixing ratio | Add 140 g (1 bottle) Sikafloor®-3159 Snapbooster for 10 kg of mixed Sikafloor®-3159 Resin mixed (A+B+C) : Quartz sand (0,1–0,3 mm) = 1: 0,1 - 0,3 (by weight) | |
| Consumption | ~0,5 - 0,6 kg/m ² / layer (filled) These figures are theoretical and does not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage etc. | |
| Material temperature | +10 °C min. / +30 °C max. Optimal temperature +18 °C / +25 °C | |
| Ambient air temperature | +10 °C min. / +30 °C max. Optimal temperature +18 °C / +25 °C | |
| Relative air humidity | ≤ 80 % max | |
| Dew point | Beware of condensation. The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the floor finish. Low temperatures and high humidity conditions increase the probability of blooming. | |
| Substrate temperature | +10 °C min. / +30 °C max. Optimal temperature +18 °C / +25 °C | |
| Substrate moisture content | Substrate | Parts by weight |
| | Concrete | ≤ 4 % |
| | Cementitious screed | ≤ 3 % |
| | Calcium sulphate screed | ≤ 0,5 % |
| The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet). | | |
| Waiting time to overcoating | Before applying Sika Comfortfloor products on Sikafloor®-3159 allow: | |
| | Substrate temperature | minimum maximum |
| | +15 °C | 3,5 hours same day* |
| | +20 °C | 2 hours same day* |
| | +25 °C | 1,5 hours same day* |
| *If the next layer cannot be applied on the same day, the Sikafloor®-3159 layer should be sanded first. Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. | | |

SYSTEM INFORMATION

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| Systems | Sikafloor®-3159 can be used with the following: <ul style="list-style-type: none">All Sikafloor® ComfortFloor® systems, but especially in combination with Sikafloor®-3000 (FX) + Sikafloor®-3000 Snapbooster |
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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.

FURTHER DOCUMENTATION

- Sika Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika Method Statement: Mixing & Application of Flooring Systems

IMPORTANT CONSIDERATIONS

- Do not apply on substrates with rising moisture.
- After application, product must be protected from damp, condensation and direct water contact.
- The subsequent layer should be applied the same day. If the next layer cannot be applied on the same day, the Sikafloor®-3159 layer should be sanded first.
- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- The incorrect assessment and treatment of cracks in the floor substrate may lead to a reduced service life and reflective surface cracking.
- Pre-treat cracks as follows before application of Sikafloor®-3159: Static Cracks: Prefill and level with Sikadur® or Sikafloor® epoxy resin. Dynamic Cracks (> 0,4 mm): To be assessed on site and if necessary apply a stripe coat of elastomeric material or design as a movement joint.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1,5 N/mm².

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.

High spots can be removed by grinding.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of cracks,

blowholes/voids and surface levelling must be carried out using products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-3159.

All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

MIXING

Prior to mixing all parts, mix separately Part A (resin) in supplied container using an electric single paddle mixer (300–400 rpm) or other similar equipment. Add Part B (hardener) to Part A and mix Part A + B.

After ~45 seconds add Part C and mix for 2,0 minutes until a uniformly consistent mix has been achieved. When Parts A, B and C have been mixed. Gradually add the required granulometry of dried quartz sand. Mix for a further 1,0 minute until a uniform mix has been achieved.

To ensure thorough mixing pour materials into a clean container and mix again for at least 1,0 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures. If moisture content is greater than recommended, Sikafloor® EpoCem® may be applied as a Temporary Moisture Barrier (T.M.B.) system.

Scratch coat

Number of coats:

- Low / medium porosity screed: 1 coat
- High porosity screed: 2 coats

Pour the mixed scratch coat onto the prepared substrate and apply by trowel or squeegee. Ensure a continuous, pore free coat covers the substrate.

Confirm waiting /overcoating time has been achieved before applying subsequent products.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material 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.

PRODUCT DATA SHEET

Sikafloor®-3159

February 2025, Version 01.01

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LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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