BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-150

Low odour epoxy primer, levelling mortar and mortar screed

DESCRIPTION

Sikafloor®-150 is a 2-part, low odour, low viscosity, multipurpose, epoxy resin which can be used as an epoxy primer, levelling mortar and mortar screed

USES

Sikafloor®-150 may only be used by experienced professionals.

The Product is used as a:
- Primer for concrete substrates, cement screeds and epoxy mortars
- Primer for normal to strongly absorbent surfaces
- Primer for Sika® epoxy and polyurethane flooring systems

CHARACTERISTICS / ADVANTAGES

- Low odour
- Low viscosity
- Good penetration
- Good bond strength
- Multi-purpose

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating
- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material
- Bond Behavior DIN EN 13578, Sikafloor®-150 + Sikafloor®-264 N, kiwa, Test report No. P 12091-1 E
- Determination of crack bridging ability of a coating system with Sikafloor®-150 according to ETAG 022, kiwa, No. P 12607-2a-E

PRODUCT INFORMATION

Chemical Base	Solvent-free epoxy	
Packaging	Container Part A	1.85 kg or 7.4 kg or 18.5 kg
	Container Part B	0.65 kg or 2.6 kg or 6.5 kg
	Container Part A + Part B	2.5 kg and 10 kg unipacks 25 kg ready to mix units
	Drum Part A	180 kg and 1000 kg drums
	Drum Part B	190 kg and 950 kg drums
	Packaging Drum Part A + Part B	3 Drums Part A (180 kg) + 1 drum Part B (190 kg) = 730 kg

	Refer to the current price list for available packaging variations.
Appearance / Colour	Part A: transparent, liquid Part B: brownish, liquid **Exposure to direct sunlight** Note: When the product is exposed to direct sunlight, there may be some discolouration and colour variation. This has no influence on the function and performance of the coating.
Shelf Life	24 months from date of production
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Density	Part A: ~1.12 kg/l (EN ISO 2811-1) Part B: ~0.99 kg/l Mixed Product: ~1.08 kg /l
Solid Content by Weight	~100 %
Solid Content by Volume	~100 %

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C: ~80 (EN ISO 868)
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete) (EN 1542)
Service Temperature	IMPORTANT **Simultaneous mechanical and chemical strain** While the Product is exposed to temperatures up to +60 °C, simultaneous mechanical or chemical strain may cause damage to the Product. 1. Do not expose the Product to chemical or mechanical strain at elevated temperatures Maximum: +60 °C

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight): 74 : 26

Consumption

Coating system	Product	Consumption
Primer	1–2 × Sikafloor®-150	1–2 × 0.3–0.5 kg/m²
Levelling mortar/Scratch coat	1 pbw Sikafloor®-150 + 1 pbw quartz sand (0.1–0.3 mm) + 0.015 pbw Sika® Extender T	1.7 kg/m² per mm of thickness
Bonding agent	1–2 × Sikafloor®-150	1–2 × 0.3–0.5 kg/m²
Mortar screed (15–20 mm layer thickness) / Repair mortar	1 pbw Sikafloor®-150 + 10 pbw quartz sand	2.2 kg/m² per mm of thickness

The following sand mixtures are suitable for layer thicknesses of 15–20 mm:
- 25 pbw quartz sand 0.1–0.5 mm
- 25 pbw quartz sand 0.4–0.7 mm
- 25 pbw quartz sand 0.7–1.2 mm
- 25 pbw quartz sand 2–4 mm

The largest grain size must be a maximum 1/3 of the finished layer thickness. Dependent on the grain shape and application temperatures, the aggregates and the most suitable mix should be selected. Other System configurations are provided in the corresponding product data sheets. Practical trials should be carried out for mortar mixes to assess suitable aggregate grain size distribution.
Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Product Temperature

Maximum	+30 °C
Minimum	+10 °C

Ambient Air Temperature

Maximum	+30 °C
Minimum	+10 °C

Relative Air Humidity

Maximum	80 % r.h.

Substrate Temperature

Maximum	+30 °C
Minimum	+10 °C

Substrate Moisture Content

Substrate	Test method	Moisture content
Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %

No rising moisture (ASTM D4263, polyethylene sheet)

Pot Life

+10 °C	~60 minutes
+20 °C	~30 minutes
+30 °C	~15 minutes

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

Waiting Time / Overcoating

Before applying non-solvented products on Sikafloor®-150 allow:

Substrate temperature	Minimum	Maximum
+10 °C	~17 hours	~4 days
+20 °C	~9 hours	~2 days
+30 °C	~7 hours	~1 day

Before applying solvented products on Sikafloor®-150 allow:

Substrate temperature	Minimum	Maximum
+10 °C	~36 hours	~6 days
+20 °C	~24 hours	~4 days
+30 °C	~12 hours	~2 days

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

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 DOCUMENTS

Refer to the following method statements:
- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement — Sikafloor® mixing and application

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT
- Electric double paddle mixer (>700 W, 300 to 400 rpm)

APPLICATION EQUIPMENT
- Squeegee
- Fleece roller

SUBSTRATE QUALITY

Cementitious substrates 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 contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

MECHANICAL SUBSTRATE PREPARATION
IMPORTANT
Surface defects due to voids in the substrate
Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.
- Fully expose blow holes and voids during surface preparation to identify the required repairs.

1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance.
3. Before applying thin layer resins, remove high spots by grinding.
4. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.
5. Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids.

Contact Sika® Technical Services for additional information on products for levelling and repairing defects.
SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES
For information on substrate preparation of non-cementitious substrates, contact Sika® Technical Services.
TREATMENT OF JOINTS AND CRACKS
Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

MIXING

Note: To increase the viscosity of the Product you can add Sika® Extender T.
2-PART MIXING PROCEDURE
1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. IMPORTANT Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniform mix is achieved.
4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
5. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

LEVELLING MORTAR AND RESIN SCREED MIXING PROCEDURE
1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. While mixing Parts A + B, gradually add the required filler or aggregates.
4. IMPORTANT Do not mix excessively. Mix for a further 2 minutes until a uniform mix is achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

APPLICATION

IMPORTANT

Protect from moisture

After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Damaged finish due to heating with fossil fuel heaters

Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

IMPORTANT

Pin holes

If the Product is applied on porous substrates during rising temperatures, pin holes may form from rising air.

1. Apply the Product during falling temperatures.

IMPORTANT

Closing Pin holes

If pin holes are present after the Product has cured blistering may occur in the subsequent layer. Close any pin holes using the following steps.

1. Lightly grind the cured surface.
2. Apply a scratch coat consisting of the Product mixed with ~3 % of Sika® Extender T.

STANDARD PRIMER APPLICATION

1. Pour the mixed Product onto the substrate.
   Note: The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a short pile roller or a squeegee.
3. Back-roll the surface in two directions at right angles with a fleece roller.
   Note: Maintain a "wet edge" during application to achieve a seamless finish.
4. If broadcasting is required, wait between 15 and 30 minutes, then broadcast the surface with quartz sand. Broadcast lightly at first, then to excess.
5. IMPORTANT Confirm waiting or overcoating time is achieved before applying subsequent products. (Refer to the "waiting time to overcoating" section of Application Information) Once the product has hardened sufficiently, remove all loose sand with industrial vacuuming equipment.

LEVELLING MORTAR / SCRATCH COAT

Equipment:

- Squeegee
- Trowel

1. Pour the mixed Product onto the substrate.
   Note: The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a trowel or a squeegee.

BONDING BRIDGE

1. Pour the mixed Product onto the substrate.
   Note: The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a brush, fleece roller or a squeegee.
3. Back-roll the surface in two directions at right angles with a fleece roller.
   Note: Maintain a "wet edge" during application to achieve a seamless finish.
4. **(Optional)** If required, apply a second priming coat.

RESIN SCREED

IMPORTANT

Not suitable for contact with water

The Product is not suitable for contact with water unless sealed with seal coat.

1. Pour the mixed Product "wet on wet" onto the still tacky primer.
   Note: The consumption is specified in Application Information.
2. Spread and compact the Product with a trowel to the required thickness between screed rails / battens, if installed.
3. Level the screed surface with a levelling beam spanning onto the screed rails / battens.
4. Finish the surface to the required surface texture with trowels or walk-behind power floats.

RESIN PATCH REPAIR MORTAR

1. Pour the mixed Product "wet on wet" onto the still tacky primer.
2. Apply the Product with a trowel to the required thickness.
3. Compact the applied product with a trowel.
4. IMPORTANT Confirm waiting or overcoating time is achieved before applying subsequent products. (Refer to the "waiting time to overcoating" section of Application Information). Smoothen the surface with a trowel.

CLEANING OF TOOLS

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 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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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