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

Please note:
- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

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

ENVIRONMENTAL INFORMATION

- Conforms with LEED v4 EQ credit: Low-emitting materials
- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Environmental Product Declarations (option 1)
- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Material ingredients (option 2)
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

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
- French regulation on indoor VOC emissions class A+
- Static_Crack_Bridging_Test_SR_150_Reemat _Premium_QS_SEPT_2020_P 12607_2_E

PRODUCT INFORMATION

Chemical Base	Solvent free epoxy		
Packaging	Container Part A	13.32 kg	
	Container Part B	4.68 kg	
	Container Part A + Part B	18 kg ready to mix units	
	Drum Part A	180 kg	
	Drum Part B	190 kg	
	Packaging Drum Part A + Part B	3 Drums Part A (180 kg) + 1 drum Part B (190 kg) = 730 kg	
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.		
Appearance / Colour	Part A	transparent, liquid	
	Part B	brownish, liquid	
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 Short-term, maximum 7 days	+60 °C	

APPLICATION INFORMATION

Mixing Ratio

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

Consumption

Coating system	Product	Consumption
Primer	1–2 × Sikafloor®-150	1–2 × 0.3–0.5 kg/m²
Levelling mortar fine (surface roughness < 1 mm)	1 pbw Sikafloor®-150 + 0.5 pbw quartz sand (0.1–0.3 mm) + 0.015 pbw Sika® Extender T	1.4 kg/m²/mm
Levelling mortar fine (surface roughness up to 2 mm)	1 pbw Sikafloor®-150 + 1 pbw quartz sand (0.1–0.3 mm) + 0.015 pbw Sika® Extender T	1.6 kg/m²/mm
Bonding bridge	1–2 × Sikafloor®-150	1–2 × 0.3–0.5 kg/m²
Mortar screed (6–20 mm layer thickness) / Repair mortar	1 pbw Sikafloor®-150 + 10 pbw quartz sand	2.2 kg/m²/mm

For sceeds 6-15mm use Sikafloor Aggregate 506
Typically the following sand mixtures proved to be suitable (grain size distribution 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

Note: The largest grain size should 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

Minimum	+10 °C
Maximum	+30 °C

Ambient Air Temperature

Minimum	+10 °C
Maximum	+30 °C

Relative Air Humidity

Maximum	80 % r.h. max

Dew Point

Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.

Substrate Temperature

Minimum	+10 °C
Maximum	+30 °C

Substrate Moisture Content

Substrate	Method method	Moisture content
Cementitious substrates	Sika® Tramex moisture metre	≤ 4 %
Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %

No rising moisture (ASTM D4263, polyethylene sheet)
IMPORTANT

Temporary moisture barrier
If the substrate moisture content measured with the Sika® Tramex moisture meter or CM-method is > 4% by weight, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.
1. Contact Sika technical services for more information.

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	~24 hours	~4 days
+20 °C	~12 hours	~2 days
+30 °C	~8 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

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika® Method Statement: Mixing and application of flooring systems

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

EQUIPMENT

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

APPLICATION EQUIPMENT
- Squeegee
- Fleece roller

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.

SUBSTRATE PREPARATION

MECHANICAL SUBSTRATE PREPARATION
IMPORTANT
Exposing blow holes and voids
When mechanically preparing the surface, make sure to fully expose blow holes and voids.
1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning or planing / 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 applica-

tion. Use Sikadur® or Sikafloor® resins.

MIXING

Note: To increase the viscosity of the Product you can add Sika® Extender T.
PRIMER MIXING PROCEDURE
1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. Mix continuously for 3 minutes, until a uniform mix is achieved.
   Note: Avoid excessive mixing to minimise air entrainment.
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 Over mixing must be avoided to minimise air entrainment. 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
Temporary heating
If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.
1. For heating, use only electric powered warm air blower systems.

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, they can be closed by doing the following.

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 /overcoating time is achieved before applying subsequent products. (Refer to waiting / overcoating times in Application Information)Once the product has hardened sufficiently, remove all loose sand with industrial vacuuming equipment.

LEVELLING MORTAR

1. Pour the mixed Product onto the substrate.
   Note: The consumption is specified in Application Information.
2. Apply the Product with one of the tools specified in Equipment.

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. Smoothen the surface with a trowel. IMPORTANT Confirm waiting /overcoating time is achieved before applying subsequent products. (Refer to waiting / overcoating times in Application Information)

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.

Sika (NZ) Limited
85-91 Patiki Road
Avondale, Auckland 1026
New Zealand
0800 745 269
www.sika.co.nz