

# PRODUCT DATA SHEET

## Sikafloor®-150 Plus

Low-odour epoxy primer, levelling mortar and mortar screed

### DESCRIPTION

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

### USES

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

Sikafloor®-150 Plus 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
- Multipurpose

### APPROVALS / STANDARDS

- 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
- 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

### PRODUCT INFORMATION

<b>Chemical Base</b>	Solvent-free epoxy	
<b>Packaging</b>	Container Part A	22.2 kg (~20L)
	Container Part B	7.8 kg (~7.9L)
	Container Part A + Part B	30 kg ready to mix units (~27.9L)
	Drum Part A	180 kg drums (~161L)
	Drum Part B	190 kg drums (~192L)
	Packaging Drum Part A + Part B	3 Drums Part A (180 kg) + 1 drum Part B (190 kg) = 730 kg (~675L)
<b>Colour</b>	Part A	Transparent, liquid
	Part B	Brownish, liquid
<b>Shelf Life</b>	24 months from date of production	
<b>Storage Conditions</b>	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 the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	

Density	Mixed Product	1.08 kg/l	(EN ISO 2811-1)
	Part A	1.13 kg/l	
	Part B	0.99 kg/l	
Solid content by weight	100 %		
Solid content by volume	100 %		
Colour	Part A	Liquid	
	Part B	Liquid	

## TECHNICAL INFORMATION

Shore D Hardness	Cured 14 days at +23 °C	83	(EN ISO 868)
Tensile Adhesion Strength	> 1.5 N/mm <sup>2</sup> (failure in concrete)		(EN 1542)
Service Temperature	Short-term, maximum 7 days	+60 °C	

### IMPORTANT

#### Product damage due to mechanical and chemical strain at elevated temperatures

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.

## APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	74 : 26
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Consumption	Coating system	Product	Consumption
	Primer	1–2 × Sikafloor®-150 Plus	1–2 × 0.3–0.5 kg/m <sup>2</sup> (~0.28-0.47L/m <sup>2</sup> )
	Levelling mortar or scratch coat	1 pbw Sikafloor®-150 Plus + 1 pbw quartz sand (0.1–0.3 mm) + 0.015 pbw Sika® Extender T	1.7 kg/m <sup>2</sup> per mm of thickness
	Bonding agent	1–2 × Sikafloor®-150 Plus	1–2 × 0.3–0.5 kg/m <sup>2</sup> (~0.28-0.47L/m <sup>2</sup> )
	Mortar screed (5–20 mm layer thickness) / Repair mortar	1 pbw Sikafloor®-150 Plus + 10 pbw quartz sand	2.2 kg/m <sup>2</sup> 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 maximum grain size must not exceed 1/3 of the finished layer thickness. Aggregates and the most suitable mix should be selected depending on the grain shape and application temperatures. For other system configurations refer to the corresponding Product Data Sheets. For mortar mixes, practical trials should be carried out to assess the appropriate 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 the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

<b>Product Temperature</b>	Maximum	+30 °C	
	Minimum	+10 °C	
<b>Ambient Air Temperature</b>	Maximum	+30 °C	
	Minimum	+10 °C	
<b>Relative Air Humidity</b>	Maximum	80 % r.h.	
<b>Dew Point</b>	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above the 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.		
<b>Substrate Temperature</b>	Maximum	+30 °C	
	Minimum	+10 °C	
<b>Substrate Moisture Content</b>	<b>Substrate</b>	<b>Test method</b>	<b>Moisture content</b>
	Cementitious substrates	Calcium carbide method (CM method)	≤ 4 %
	Cementitious substrates	Sika® Tramex moisture meter	≤ 4 %
	<p>No rising moisture (ASTM D4263, polyethylene sheet)  Temporary moisture barrier  If the substrate moisture content measured with the Sika® Tramex moisture meter or CM-method is &gt; 4% by weight, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.  1. Contact Sika technical services for more information.</p>		
<b>Pot Life</b>	+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.		
<b>Waiting Time / Overcoating</b>	Before applying non-solvented products on Sikafloor®-150 Plus allow:		
	<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	+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 Plus allow:		
	<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	+10 °C	36 hours	6 days
	+20 °C	24 hours	4 days
	+30 °C	12 hours	2 day
	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 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 rpm to 400 rpm)

### APPLICATION EQUIPMENT

- Squeegee
- Fleece roller

## SUBSTRATE QUALITY

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 25 MPa) with a minimum tensile strength of 1.5 MPa. 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.

1. 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. Where thin layer resins are going to be applied, remove high spots by grinding.
4. Remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.
5. Level the surface or fill cracks, blow holes and voids with products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

For additional information on products for leveling and repairing defects, contact Sika® Technical Services.

### 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.

### TWO-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 an-

other 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 caused by application during rising temperature

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

1. Apply the Product during falling temperatures.

### IMPORTANT

#### Blistering caused by 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 For consumption, refer to 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 time to overcoating 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.

#### SCRATCH COAT

1. Pour the mixed Product onto the substrate. Note For consumption, refer to Application Information.
2. Apply the Product evenly over the surface with a trowel or a squeegee.

#### BONDING AGENT

1. Pour the mixed Product onto the substrate. Note For consumption, refer to 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 For consumption, refer to 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 time to overcoating 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.

#### Sika (NZ) Limited

85-91 Patiki Road  
Avondale, Auckland 1026  
New Zealand  
0800 745 269  
www.sika.co.nz



#### Product Data Sheet

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