

# PRODUCT DATA SHEET

## Sikafloor®-156

Epoxy primer, levelling mortar and mortar screed

### DESCRIPTION

Sikafloor®-156 is a 2-part, low viscosity, multipurpose, epoxy resin which can be used as an epoxy primer, levelling mortar and mortar screed. Internal and external use.

### USES

Sikafloor®-156 may only be used by experienced professionals.

- Priming concrete substrates, cement screeds and epoxy mortars
- For normal to strongly absorbent substrates
- Primer for all Sika Epoxy and PUR floorings
- Binder for levelling mortars and mortar screeds
- For internal and external use

### CHARACTERISTICS / ADVANTAGES

- Low viscosity
- Good penetration ability
- High bond strength
- Short waiting times
- Multi-purpose

### PRODUCT INFORMATION

<b>Chemical Base</b>	Epoxy	
<b>Packaging</b>	Part A	1.875 kg, 7.5 kg and 18.75 kg containers
	Part B	0.625 kg, 2.5 kg and 6.25 kg containers
	Part A+B	2.5 kg and 10 kg unipacks 25 kg ready to mix unit
	Part A	180 kg and 1000 kg drums
	Part B	60 kg, 180 kg and 1000 kg drums

Refer to current price list for packaging variations.

### ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings
- IBU Environmental Product Declaration (EPD)
- VOC emission certificate according to AgBB and DIBt approval requirements, reference to classification / test report No. G18790

### APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in building

<b>Appearance / 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 packaging.		
<b>Density</b>	Part A	~1.10 kg /l	(DIN EN ISO 2811-1)
	Part B	~1.02 kg /l	
	Mixed resin	~1.1 kg /l	
	All density values at 23 °C.		
<b>Solid content by weight</b>	~100 %		
<b>Solid content by volume</b>	~100 %		

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~79 (7 days / +23 °C / 50 % r.h.)	(DIN 53505)
<b>Compressive Strength</b>	~55 N/mm <sup>2</sup> (Mortar, 30 days / +23 °C / 50 % r.h.) Mortar screed: Sikafloor®-156 mixed 1:10 with suitable sand mixture, refer to "Systems"	(EN 196-1)
<b>Tensile Strength in Flexure</b>	~15 N/mm <sup>2</sup> (Mortar, 30 days / +23 °C / 50 % r.h.) Mortar screed: Sikafloor®-156 mixed 1:10 with suitable sand mixture, refer to "Systems"	(EN 196-1)
<b>Tensile Adhesion Strength</b>	>1.5 N/mm <sup>2</sup> (failure in concrete)	(EN 4624)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B = 75 : 25 (by weight)		
<b>Consumption</b>	<b>Coating System</b>	<b>Product</b>	<b>Consumption</b>
	Priming	1–2 × Sikafloor®-156	1–2 × 0.30–0.50 kg/m <sup>2</sup>
	Levelling mortar fine (surface roughness < 1 mm)	1 pbw Sikafloor®-156 + 0.5 pbw quartz sand (0.1–0.3 mm) + 0.015 pbw Extender T	1.4 kg/m <sup>2</sup> /mm
	Levelling mortar medium (surface roughness up to 2 mm)	1 pbw Sikafloor®-156 + 1 pbw quartz sand (0.1–0.3 mm) + 0.015 pbw Extender T	1.6 kg/m <sup>2</sup> /mm
	Bonding bridge	1–2 × Sikafloor®-156	1–2 × 0.3–0.5 kg/m <sup>2</sup>
	Epoxy screed / Repair Mortar (15–20 mm layer thickness)	1 pbw Sikafloor®-156 + 10 pbw quartz sand	2.2 kg/m <sup>2</sup> /mm
	These figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.		
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.		
<b>Relative Air Humidity</b>	80 % max.		
<b>Dew Point</b>	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.		
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.		

**Substrate Moisture Content**

≤ 4 % parts by weight

Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

**Pot Life****Temperature****Time**

+10 °C

~60 minutes

+20 °C

~30 minutes

+30 °C

~15 minutes

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## Curing Time

Before applying non-solvent based products on Sikafloor®-156 allow:

<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+10 °C	24 hours	4 days
+20 °C	12 hours	2 days
+30 °C	8 hours	24 hours

Before applying solvent based products on Sikafloor®-156 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 days

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

## SYSTEM INFORMATION

### Systems

#### Primer

Low / medium porosity concrete	1 × Sikafloor®-156
High porosity concrete	2 × Sikafloor®-156

#### Levelling mortar fine

(surface roughness <1 mm)

Primer	1 × Sikafloor®-156
Levelling mortar	1 × Sikafloor®-156 + quartz sand (0.1–0.3 mm) + Extender T

#### Levelling mortar medium

(surface roughness up to 2 mm)

Primer	1 × Sikafloor®-156
Levelling mortar	1 × Sikafloor®-156 + quartz sand (0,1–0,3 mm) + Extender T

#### Epoxy screed / repair mortar

(15–20 mm layer thickness)

Primer	1 × Sikafloor®-156
Bonding bridge	1 × Sikafloor®-156
Screed	1 × Sikafloor®-156 + suitable sand mixture

The following sand mixtures are indicative mix design quantities that must be confirmed by pre-trials. Grain size distribution for layer thicknesses of 15–20 mm , parts by weight (pbw):

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 must be a maximum 1/3 of the finished layer thickness. Dependent on the grain shape, application temperatures, aggregates and the most suitable mix must be selected and confirmed by pre-trials.

## 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 & Application of Flooring Systems
- Sika® Method Statement: Sikafloor®-Cleaning Regime

## IMPORTANT CONSIDERATIONS

- After application, Sikafloor®-156 must be protected from damp, condensation and direct water contact (rain) for 24 hours.
- Construction joints and existing static surface cracks in substrate require pre-treating with a stripe coat by prefilling and levelling to seal against loss of material through the joint or cracks before full layer application. Use Sikadur® or Sikafloor® resins.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking on the surface.
- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- Discard any material over the pot life recommendations.
- Do not apply on substrates with rising moisture.
- Sikafloor®-156 mortar screed is not suitable for frequent or permanent contact with water unless sealed.
- Pre-trials must be carried out for mortar mixes to assess suitable aggregate grain size distribution.
- For external applications, apply on a falling temperature. If applied during rising temperatures “pin holing” may occur from rising air. These pinholes can be closed after light grinding by applying a scratch coat of Sikafloor®-156 mixed with ~3 % of Extender T.

## 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) con-

taining physical, ecological, toxicological and other safety-related data.

## DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikafloor®-156 is < 500 g/l VOC for the ready to use product.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum tensile strength of 1.5 N/mm<sup>2</sup>.

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 appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-156.

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) using a low speed single paddle electric stirrer (300 - 400 rpm). Add part B (hardener) to part A and mix part A + B continuously for 3.0 minutes until a uniform mix has been achieved. When parts A and B have been mixed. Using a double paddle (axis) electric stirrer (>700W), pan type revolving or forced action mixer or other suitable equipment (free fall mixers must not be used). Gradually add the appropriate granulometry of dried quartz sand and if required Extender T. Mix for a further 2.0 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment. 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. Mix full units only. Mixing time for A+B+quartz sand = 5.0 minutes.

## 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 > 4% parts by weight, Sikafloor® EpoCem® may be applied as a Temporary Moisture Barrier (T.M.B.) system.

### Primer

Pour mixed Sikafloor®-156 onto the prepared substrate and apply by brush, roller or squeegee then back roller in two directions at right angles to each other. Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Confirm primer waiting /overcoating time has been achieved before applying subsequent products. Refer to individual primer Product Data Sheet.

### Levelling mortar

Apply the levelling mortar by squeegee/trowel to the required thickness.

### Bonding bridge

Pour mixed Sikafloor®-156 onto the prepared substrate and apply by brush, roller or squeegee. For epoxy screed, back roller in two directions at right angles to each other. Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

## Epoxy screed / repair mortar

Apply the repair or screed mortar onto the “tacky” bonding bridge. For the screed, use levelling battens and screed rails as necessary. After a short waiting time, compact and smoothen the mortar with a trowel. For the screed, a teflon coated power float (~20 - 90 rpm) is recommended.

## CLEANING OF TOOLS

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

## LOCAL RESTRICTIONS

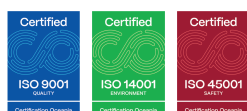
Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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.

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