

PRODUCT DATA SHEET

Sikafloor®-155 WN

Water-based epoxy primer

DESCRIPTION

Sikafloor®-155 WN is a water-based epoxy resin primer.

USES

Sikafloor®-155 WN may only be used by experienced professionals.

Sikafloor®-155 WN is used on the following substrates:

- Concrete
- Cementitious screeds
- Epoxy mortars
- Normal to highly absorbent surfaces and substrates

Please note:

- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Easy application
- Low odour
- Low viscosity
- Good penetration
- Good bond strength

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

PRODUCT INFORMATION

Chemical Base	Water-based epoxy	
Packaging	Container Part A	5.25 kg (3.3ltr)
	Container Part B	1.75 kg (1.7ltr)
	Container Part A + Part B	7 kg (5 ltr)
Shelf Life	12 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	Coloured paste
	Part B	light yellow-translucent liquid
	Cured colour	Oxide red (~ RAL 3009)

Density	Part A	1.6 kg /l	(EN ISO 2811-1)
	Part B	1.1 kg /l	
	Mixed Product	1.4 kg /l	

Solid content by weight 70 %

Solid content by volume 56 %

TECHNICAL INFORMATION

Tensile Adhesion Strength > 1.5 N/mm² (failure in concrete) (EN 1542)

APPLICATION INFORMATION

Mixing Ratio Part A : Part B (by weight) 75 : 25

Consumption 0.3–0.5 kg/m² per coat
 Dilute the first coat with water 10 % by weight. The second coat is applied undiluted.
 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.

Layer Thickness 110-180 µm per layer (dry film thickness)

Product Temperature
 Maximum +30 °C
 Minimum +10 °C

Ambient Air Temperature
 Maximum +35 °C
 Minimum +10 °C

Relative Air Humidity Maximum 80 % r.h.

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
 Maximum +35 °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 180 minutes
 +20 °C 90 minutes
 +30 °C 45 minutes

Waiting Time / Overcoating Before applying Sikafloor®-81 EpoCem® or Sikafloor®-82 EpoCem® onto Sikafloor®-155 WN allow:

Substrate temperature	Minimum	Maximum
+10 °C	12 hours	72 hours
+20 °C	6 hours	48 hours
+30 °C	4 hours	24 hours

Apply subsequent coats only to tack free primer.
 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

SUBSTRATE PREPARATION

- Abrasive blast cleaning equipment
- Planing machine
- Scarifying machine

MIXING

- Electric double-paddle mixer (>700 W, 300 to 400 rpm)
- Electric single-paddle mixer (300 to 400 rpm)
- Scraper
- Clean mixing containers

APPLICATION

- Short-pile nylon 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.

Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.

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.

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.

MIXING

FIRST COAT

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~2 minutes while adding 10 % water until a uniformly coloured 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.

SECOND COAT

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~2 minutes until a uniformly coloured 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.

APPLICATION

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

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

Applying the Product after the end of the pot life

The end of the pot life is not noticeable. Continuing to apply the Product after the end of the pot life may result in the applied material not curing properly.

1. Monitor the pot life closely taking into consideration the environmental conditions.
2. Discard materials that remain after the pot life has elapsed.

PRIMER COAT 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.

CLEANING OF TOOLS

Clean all tools and application equipment with water 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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Product Data Sheet

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