

PRODUCT DATA SHEET

Sikafloor®-2650

Low-odour, fast-curing, smooth epoxy floor coating

DESCRIPTION

Sikafloor®-2650 is a 2-part low odour fast curing epoxy coloured roller coating that provides a hard wearing, seamless, low maintenance, smooth gloss finish.

USES

Sikafloor®-2650 may only be used by experienced professionals.

Sikafloor®-2650 is used as a:

- Smooth wearing roller coating on concrete and cementitious screed substrates

Please note:

- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Fast curing
- Good mechanical resistance
- Good impact resistance
- Good yellowing resistance
- Very good blush resistance
- Low VOC emissions
- Low odour
- Low maintenance

PRODUCT INFORMATION

Chemical Base	Solvent-free epoxy	
Packaging	Container Part A	3.94 ltr or 15.75 ltr
	Container Part B	1.06 ltr or 4.25 ltr
	Container Part A + Part B	5ltr or 20 ltr ready to mix unit

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4
- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4
- French regulation on indoor VOC emissions class A+
- Belgian Regulation Attestation, Eurofins
- VOC emission classification GEV Emicode EC1^{plus}
- M1 EMISSION CLASSIFICATION OF BUILDING MATERIALS
- 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 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

Appearance / Colour	Part A	coloured, liquid	
	Part B	transparent, liquid	
	Cured appearance	Gloss finish	
	Available in RAL 7032 and RAL 7035, other colours on request. Please contact Sika Customer Services for availability. 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	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.		
Density	Part A	~ 1.53 kg/l	(EN ISO 2811-1)
	Part B	~ 1.00 kg/l	
	Mixed Product	~ 1.41 kg/l	
Solid content by weight	~100 %		
Solid content by volume	~100 %		

TECHNICAL INFORMATION

Tensile Adhesion Strength	> 1.5 N/mm ² (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	Sikafloor®-54 Booster Note: Add between 2 % and 4 % of Sikafloor®-54 Booster, by weight of the mixed resin, to the Product to decrease the waiting times. Part A : Part B (by weight) 85 : 15	
Consumption	Function Roller coat for smooth systems	Consumption 0.4–0.5 kg/m ²
Product Temperature	Maximum	+23 °C
	Minimum	+8 °C
Ambient Air Temperature	Maximum	+30 °C
	Minimum	+8 °C
Relative Air Humidity	Maximum	80 % r.h.
	Minimum	20 % 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	+23 °C
	Minimum	+8 °C

Substrate Moisture Content Refer to the Product data sheets of the individual primer

Pot Life	Temperature	Without Sika-floor®-54 Booster	With 2 % Sika-floor®-54 Booster	With 4 % Sika-floor®-54 Booster
	+8 °C	~90 minutes	~75 minutes	~70 minutes
	+10 °C	~90 minutes	~70 minutes	~55 minutes
	+15 °C	~50 minutes	~40 minutes	~35 minutes
	+23 °C	~30 minutes	~15 minutes	-

IMPORTANT

Foaming due to exothermic reaction

After the end of the Product's pot life the exothermic reaction of the Product leads to foaming.

1. At the end of the Product's pot life, fill the container completely with quartz sand to stop the exothermic reaction.

Applied Product Ready for Use

WITHOUT

Temperature	Foot traffic	Light traffic	Full cure
+8 °C	~ 11 hours	~ 16 hours	~ 36 hours
+10 °C	~ 8 hours	~ 14 hours	~ 24 hours
+15 °C	~ 6 hours	~ 7 hours	~ 18 hours
+23 °C	~ 4 hours	~ 6 hours	~ 8 hours

WITH 2 %

Temperature	Foot traffic	Light traffic	Full cure
+8 °C	~ 10 hours	~ 14 hours	~ 26 hours
+10 °C	~ 7 hours	~ 10 hours	~ 18 hours
+15 °C	~ 5 hours	~ 6 hours	~ 12 hours
+23 °C	~ 3 hours	~ 3 hours	~ 6 hours

WITH 4 %

Temperature	Foot traffic	Light traffic	Full cure
+8 °C	~ 9 hours	~ 12 hours	~ 24 hours
+10 °C	~ 6 hours	~ 8 hours	~ 12 hours
+15 °C	~ 4 hours	~ 5 hours	~ 8 hours

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.

age 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.

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, stor-

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT

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

APPLICATION EQUIPMENT

- Short-pile 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.

MIXING

IMPORTANT

Higher amounts of Sikafloor®-54 Booster at higher ambient temperatures

If more than 2 % of Sikafloor®-54 Booster is added at ambient temperatures higher than +15 °C, the exothermic reaction increases and the product will start foaming very quickly.

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.
4. If necessary, gradually add the required amount of Sikafloor®-54 Booster.
5. If additional materials were added, mix for a further 2 minutes until a uniform mix is achieved.
6. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
7. 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

No application on rising moisture

Do not apply on substrates with rising moisture.

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

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.

ROLLER COATING

1. Pour the mixed Product onto the substrate.

Note: The consumption is specified in Application Information.

2. Back-roll the surface in two directions at right angles with a short pile roller.

Note: Maintain a "wet edge" during application for a seamless finish.

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.

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Product Data Sheet

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