BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-2650

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

PRODUCT 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 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

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

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

PRODUCT INFORMATION

Chemical Base	Solvent-free epoxy	
Packaging	Container Part A	8.5 kg or 25.5 kg
	Container Part B	1.5 kg or 4.5 kg
	Container Part A + Part B	10 kg or 30 kg ready to mix unit
	Refer to the current price list for available packaging variations.	
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, 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.

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 mass

~100 %

Solid content by volume

~100 %

TECHNICAL INFORMATION

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

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	Consumption
Roller coat for smooth systems	0.4–0.5 kg/m²

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.

VALUE BASE

All technical data stated in this 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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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/mm^2) with a minimum tensile strength of 1.5 N/mm^2.

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

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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.

SIKA IRELAND LIMITED
Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland