

PRODUCT DATA SHEET

Sikafloor®-2640

Epoxy high build fast curing floor coating and seal coat



DESCRIPTION

Sikafloor®-2640 is a 2-part, epoxy, coloured, high build, slightly textured, fast curing floor coating and seal coat. It provides a hard wearing, seamless, low maintenance, slip resistant gloss finish when broadcasted with different aggregate grades.

USES

Sikafloor®-2640 may only be used by experienced professionals.

The Product is used as a:

- Coloured, slightly textured, roller coat for concrete and cement screeds with normal up to medium heavy wear
- Seal coat or Top coat for slip resistant broadcast systems

Please note:

- The Product may only be used for interior applications.

FEATURES

- Very good blush resistance
- Fast curing
- Good yellowing resistance
- Good resistance to specific chemicals
- Good mechanical resistance
- Low maintenance
- Low odour
- Low VOC content
- Low VOC emissions
- Seamless

SUSTAINABILITY

- 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
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- VOC emissions A+, Sikafloor®-2640, eurofins, Attestation
- VOC emission classification GEV Emission EC1^{plus}

CERTIFICATES AND TEST REPORTS

- 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
- 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

PRODUCT INFORMATION

Composition	Solvent free epoxy		
Packaging	Container Part A	26.7 kg containers	
	Container Part B	3.3 kg containers	
	Container Part A + Part B	30 kg ready to mix units	
	Refer to the current price list for available packaging variations.		
Shelf life	24 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 and colour	Part A	coloured liquid	
	Part B	transparent liquid	
	Cured appearance	Gloss finish	
	Almost unlimited choice of colours. 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	1.58 kg/l	(EN ISO 2811-1)
	Part B	0.98 kg/l	
	Mixed Product	1.48 kg/l	
Solid content by mass	~100 %		
Solid content by volume	~100 %		

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at 23 °C	~78	(EN ISO 868)
Abrasion resistance	Cured 7 days at 23 °C	~935 mg (H22 / 1000 g / 1000 cycles)	(EN ISO 5470-1)
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		
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Services for specific information.		

APPLICATION INFORMATION

Mixing ratio	Part A : Part B (by weight)	89 : 11
Consumption	Function	Consumption
	Roller coat for smooth systems	0.3–0.4 kg/m ²
	Seal or top coat for broadcast systems	0.6–0.8 kg/m ²

Material temperature	Minimum	+5 °C							
	Maximum	+30 °C							
Ambient air temperature	Minimum	+5 °C							
	Maximum	+30 °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	Minimum	+5 °C							
	Maximum	+30 °C							
Substrate moisture content	IMPORTANT Temporary moisture barrier If the substrate moisture content measured with the CM-method is > 4% by weight, apply a temporary moisture barrier consisting of Sikafloor® Epo-Cem®. 1. Contact Sika technical services for more information. <table><tr><th>Substrate</th><th>Test method</th><th>Moisture content</th></tr><tr><td>Cementitious substrates</td><td>Calcium carbide method (CM-method)</td><td>≤ 4 %</td></tr></table> No rising moisture (ASTM D4263, polyethylene sheet)			Substrate	Test method	Moisture content	Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %
Substrate	Test method	Moisture content							
Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %							
Pot Life	+5 °C	~30 minutes							
	+10 °C	~30 minutes							
	+20 °C	~20 minutes							
	+30 °C	~15 minutes							
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.								
Waiting time to overcoating	Before applying Sikafloor®-2640 on Sikafloor®-2640 allow:								
	Temperature	Minimum	Maximum						
	+5 °C	~18 hours	~3 days						
	+10 °C	~12 hours	~3 days						
	+20 °C	~6 hours	~48 hours						
	+30 °C	~3 hours	~24 hours						
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.								
Applied product ready for use	Temperature	Foot traffic	Light traffic	Full cure					
	+5 °C	~18 hours	~36 hours	~3 days					
	+10 °C	~12 hours	~15 hours	~24 hours					
	+20 °C	~6 hours	~11 hours	~14 hours					
	+30 °C	~3 hours	~9 hours	~12 hours					
Note: Times apply when the last layer of the system has been applied. Times are 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 INFORMATION

Refer to the following method statements:

- Sika Method Statement — Sikafloor® and Sikagard® evaluation and preparation of surfaces
- 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 to 400 rpm)

APPLICATION EQUIPMENT

- Squeegee
- Fleece roller

SUBSTRATE QUALITY

IMPORTANT

Incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

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 CONDITION

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 all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

MECHANICAL SUBSTRATE PREPARATION

IMPORTANT

Exposing blow holes and voids

When mechanically preparing the surface, make sure to fully expose blow holes and voids.

1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning or planing / 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

MIXING PROCEDURE

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 ~3 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

Protect from moisture

After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

No application on rising moisture

Do not apply on substrates with rising moisture.

IMPORTANT

Exothermic reaction

Do not leave the mixed product in its container after the end of the pot life, as 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.

IMPORTANT

Ensuring consistent colour matching

For consistent colour matching, make sure the Product in each area is applied from the same control batch numbers.

IMPORTANT

Temporary heating

If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For heating, use only electric powered warm air blower systems.

ROLLER COATING

1. Pour the Product onto the surface.
2. Apply the Product in two directions at right angles with a short-pile roller, brush, or squeegee.
Note: Maintain a "wet edge" during application to achieve a seamless finish.

SEAL COAT FOR BROADCAST SURFACES

1. Pour the mixed Product onto the substrate.
Note: The consumption is specified in Application Information.
2. Spread the Product evenly over the surface with a squeegee.
3. Back roll the surface in two directions at right angles with a medium pile roller.
Note: Maintain a "wet edge" during application for a seamless finish.

CLEANING OF EQUIPMENT

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

MAINTENANCE

To maintain the appearance of the floor after application, the Product must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes. Refer to Sika Method Statement: Sikafloor®-Cleaning Regime.

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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