

## PRODUCT DATA SHEET

# Sikafloor®-2640

Solvent free epoxy resin based, coloured, and high-performance fast curing floor coating for self-levelling, multi-layer, multi-textured finish



### DESCRIPTION

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

### USES

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

The Product is used as a:

- Floor coating for industrial, residential, commercial floor
- Coloured, slightly textured, roller coat for concrete and cement screeds with normal up to medium heavy wear
- Seal or Top coat for slip resistant broadcast systems
- Self-levelling smooth finish

Please note:

- The Product may only be used for interior applications or protected by UV-resistance Top Coat (Sikafloor® -315) for external application.
- The Product may only be used by experienced professionals.

### CHARACTERISTICS / ADVANTAGES

- Good humidity and moisture resistance
- Fast curing
- Good yellowing resistance
- Low maintenance
- Low odour
- Impervious to liquids
- Solvent-free
- Good chemical and mechanical resistance

- Low VOC content
- Low VOC emissions
- Seamless

### ENVIRONMENTAL INFORMATION

- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Material ingredients (option 2)
- Conforms with LEED v4 EQ credit: Low-emitting materials
- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Environmental Product Declarations (option 1)
- 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<sup>plus</sup>

### APPROVALS / STANDARDS

- 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
- Certificate of conformity for indirect food contact, Institut Wessling, Report No. CAL20-082715-1, July 2020
- Sikafloor 2640 is certified by CIC achieved compliance with the Assessment Standard and is rated Gold grade environmental friendly product. (Application no.: CICPC-L-21177 (P&C))
- Sikafloor 2640 is recognized in Build 4 Asia Awards 2022 - Outstanding Building Materials.

## PRODUCT INFORMATION

<b>Chemical Base</b>	Special formulation solvent free epoxy	
<b>Packaging</b>	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.	
<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. Refer to the current Safety Data Sheet for information on safe handling and storage.	
<b>Appearance / Colour</b>	Part A	coloured liquid
	Part B	transparent liquid
	Cured appearance	semi-gloss finish
	Almost unlimited choice of colours. <b>Exposure to direct sunlight</b> 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.	
<b>Density</b>	Part A	1.58 kg/l
	Part B	0.98 kg/l
	Mixed Product	1.48 kg/l
<b>Solid Content by Weight</b>	~100 %	
<b>Solid Content by Volume</b>	~100 %	

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	Cured 7 days at +23 °C	~78	(EN ISO 868)
<b>Tensile Adhesion Strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete)		(EN 1542)
<b>Service Temperature</b>	IMPORTANT <b>Simultaneous mechanical and chemical strain</b> 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		
<b>Chemical Resistance</b>	Resistant to many chemicals. Contact Sika Technical Services for specific information.		

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B (by weight)	89 : 11
<b>Consumption</b>	<b>Function</b>	<b>Consumption</b>
	Roller coat for smooth systems	~0.3–0.4 kg/m <sup>2</sup> /layer
	Seal or Top coat for broadcast systems	~0.6–0.8 kg/m <sup>2</sup> /layer
<b>Product Temperature</b>	Minimum	+5 °C
	Maximum	+30 °C

<b>Ambient Air Temperature</b>	<u>Minimum</u>	<u>+5 °C</u>		
	<u>Maximum</u>	<u>+30 °C</u>		
<b>Relative Air Humidity</b>	<u>Maximum</u>	<u>80 %</u>		
<b>Dew Point</b>	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.			
<b>Substrate Temperature</b>	<u>Minimum</u>	<u>+5 °C</u>		
	<u>Maximum</u>	<u>+30 °C</u>		
<b>Substrate Moisture Content</b>	<b>Substrate</b>	<b>Suggested method</b>	<b>Moisture content</b>	
	Cementitious substrates	Sika® Tramex moisture metre	≤ 6 %	
	No rising moisture (ASTM D4263, polyethylene sheet)			
	IMPORTANT			
	<b>Temporary moisture barrier</b>			
	If the substrate moisture content is > 6 % by weight, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.			
	1. Contact Sika technical services for more information.			
<b>Pot Life</b>	<u>+5 °C</u>	<u>~30 minutes</u>		
	<u>+10 °C</u>	<u>~30 minutes</u>		
	<u>+20 °C</u>	<u>~20 minutes</u>		
	<u>+30 °C</u>	<u>~15 minutes</u>		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
<b>Waiting Time / Overcoating</b>	Before applying Sikafloor®-2640 on Sikafloor®-2640 allow:			
	<b>Temperature</b>	<b>Minimum</b>	<b>Maximum</b>	
	<u>+5 °C</u>	<u>~18 hours</u>	<u>~3 days</u>	
	<u>+10 °C</u>	<u>~12 hours</u>	<u>~3 days</u>	
	<u>+20 °C</u>	<u>~6 hours</u>	<u>~48 hours</u>	
	<u>+30 °C</u>	<u>~3 hours</u>	<u>~24 hours</u>	
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	<u>+5 °C</u>	<u>~18 hours</u>	<u>~36 hours</u>	<u>~3 days</u>
	<u>+10 °C</u>	<u>~12 hours</u>	<u>~15 hours</u>	<u>~24 hours</u>
	<u>+20 °C</u>	<u>~6 hours</u>	<u>~11 hours</u>	<u>~14 hours</u>
	<u>+30 °C</u>	<u>~3 hours</u>	<u>~9 hours</u>	<u>~12 hours</u>
	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 DOCUMENTS

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika® Method Statement: Mixing and application of flooring systems

## 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 Material Safety Data Sheet (MSDS) 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 (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.

## 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. Mix Part A + B continuously for ~3 minutes until a uniformly coloured mix is achieved. Avoid excessive mixing to minimise air entrainment.
4. To ensure thorough mixing, pour materials into an-

other 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. Maintain a "wet edge" during application to achieve a seamless finish.

#### SEAL COAT FOR BROADCAST SURFACES

1. Pour the mixed Product onto the substrate. 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. Maintain a "wet edge" during application for a seamless finish.

#### Product Data Sheet

Sikafloor®-2640

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## CLEANING OF TOOLS

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

### SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., H.K.  
Phone: +852 26868108  
Fax: +852 26453671  
Mail: marketing@hk.sika.com  
Website: www.sika.com.hk



### Product Data Sheet

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