BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-2640

High-build, fast-curing epoxy floor coating and seal coat

DESCRIPTION

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

USES

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

Sikafloor®-2640 is used as a:
- Coloured, slightly textured roller coat for concrete and cement screeds with normal to medium wear
- Seal coat or top coat for slip-resistant broadcast systems

Please note:
- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- 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

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4 — 1 point
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4 — 1 point
- VOC emissions A+, Sikafloor®-2640, eurofins, Attestation

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
- Sikafloor 2640 is certified by CIC achieved compliance with the Assessment Standard and is rated Gold grade environmental friendly product. Licence Number: CICGPC-L-21177(P&C)

PRODUCT INFORMATION

Chemical Base	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.	
Colour	Part A	Coloured
	Part B	Transparent
	Cured colour	Available in various colours
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 the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	

Density	Mixed Product	1.48 kg/l	(EN ISO 2811-1)
	Part A	1.58 kg/l	
	Part B	0.98 kg/l	

Solid Content by Weight	100 %	
Solid Content by Volume	100 %	
Colour	Part A	Liquid
	Part B	Liquid
	Cured appearance	Gloss finish

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	78	(EN ISO 868)
Abrasion Resistance	< 3000 mg (H22 / 1000 cycles / 1000 g)		(EN ISO 5470-1)
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)		(EN 1542)
Chemical Resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.		
Service Temperature	Maximum	+60 °C	
	IMPORTANT **Product damage due to mechanical and chemical strain at elevated temperatures** 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.		

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/m²
	Seal coat or top coat for broadcast systems	0.6–0.8 kg/m²
Product Temperature	Maximum	+30 °C
	Minimum	+5 °C

Ambient Air Temperature

Maximum	+30 °C
Minimum	+5 °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 the 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	+30 °C
Minimum	+5 °C

Substrate Moisture Content

Substrate	Test method	Moisture content
Cementitious substrates	Calcium carbide method (CM method)	≤ 4 %

No rising moisture (ASTM D4263, polyethylene sheet)
Temporary moisture barrier
Note: If the substrate moisture content measured with the CM-method is > 4% by weight, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.
1. Contact Sika technical services for more information.

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 / Overcoating

Before applying Sikafloor®-2640 on Sikafloor®-2640 allow:

Temperature	Minimum	Maximum
+5 °C	18 hours	3 days
+10 °C	15 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	15 hours	6 hours	3 hours
+20 °C	18 hours	11 hours	9 hours
+30 °C	24 hours	14 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 DOCUMENTS

Refer to the following method statements:
- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement 8508410 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 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 rpm to 400 rpm)

APPLICATION EQUIPMENT
- Squeegee
- Fleece roller

SUBSTRATE PREPARATION

IMPORTANT
Reduced service life due to incorrect treatment of cracks
The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
1. For static cracks, ensure the width is suitable for overcoating with Sikafloor®-2640.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sikafloor®-2640.

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 contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
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.
1. 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. Where thin layer resins are going to be applied, remove high spots by grinding.
4. Remove all dust, loose and friable material from the application surface with industrial vacuuming equipment.
5. Level the surface or fill cracks, blow holes and voids with products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

For additional information on products for levelling and repairing defects, contact Sika® Technical Services.
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
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.

IMPORTANT
Inconsistent colouring due to colours from different batch numbers
For consistent colour matching, make sure the Product is applied in each area from the same batch numbers.
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.

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: For consumption, refer to 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 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 applica-

tion:
1. Immediately remove all spillages.
2. IMPORTANT Use detergents and maintenance layer products in strict accordance with the Manufacturer's instructions. Regularly clean the floor using suitable detergents and maintenance layers using equipment such as rotary brushes, mechanical scrubbers, scrubber-dryers, high-pressure washers and wash and vacuum machines.

For further information refer to: Method statement Cleaning Regime Sikafloor® Floor Coverings

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