

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 broadcast 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 to medium wear
- Seal coat or top coat for slip-resistant broadcast systems

Please note:

- The Product may only be used for interior applications.
- The Product may only be used by experienced professionals.

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
- 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 Maximum +60 °C		

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 coat or top coat for broadcast systems	0.6–0.8 kg/m ²

Material 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 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 Sika-floor® EpoCem®.				
1. Contact Sika technical services for more information.				
Pot Life	+10 °C	~ 30 minutes		
	+20 °C	~ 20 minutes		
	+30 °C	~ 15 minutes		
	+5 °C	~ 30 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	~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	~18 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 — 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, 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 contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

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. 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

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

Ensuring consistent colour matching

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

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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:

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:

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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