BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-2640

Epoxy high build textured fast curing floor coating and seal coat

PRODUCT 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. Varying thickness's can be achieved from 0.6–0.8 mm. For medium - heavy wear conditions.

USES

Sikafloor®-2640 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

The Product is used as a:
- 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

The Product is used for the following application areas:
- Production areas
- Warehouses
- Storage areas
- Internal car park decks
- Food and beverage facilities
- Workshops
- Aircraft hangars

CHARACTERISTICS / ADVANTAGES

- Fast curing
- Low odour
- Low VOC emissions
- Good yellowing resistance
- Good blush resistance
- Seamless
- Hygienic
- Good mechanical resistance
- Easy application by roller and squeegee
- Good slip resistance
- Textured gloss finish
- Easy to clean and maintain

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 Emissions AgBB, Sikafloor®-2640, eurofins, Report No. 392-2019-00253501_D_EN
- VOC emission classification GEV Emicode EC1plus

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

PRODUCT INFORMATION

Product Declaration	EN 1504-2: Surface protection product for concrete - Coating EN 13813: Resin screed material for internal use in buildings		
Chemical Base	Epoxy		
Packaging	Container Part A	26.7 kg	
	Container Part B	3.3 kg	
	Container Part A + Part B	30 kg	
	Refer to current price list for 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 / Colour	Part A	coloured liquid	
	Part B	transparent liquid	
Density	**Resin**	**Density at +23°C**	(EN ISO 2811-1)
	Part A	1.58 kg/L	
	Part B	0.98 kg/L	
	Mixed resin unfilled	1.48 kg/L	
Solid content by mass	100 % Total solid composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)		
Solid content by volume	100 %		

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	~78	(DIN 53505)
Abrasion Resistance	~935 mg (H22 /1000 g /1000 cycles) (after 7 days at +23°C)		(DIN 53109)
Tensile adhesion strength	> 1,5 N/mm² (failure in concrete)		(EN ISO 4624)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	89 : 11 (by weight)
Consumption	~0.6-0.8 kg/m² per coat	
Product Temperature	Maximum	+30 °C
	Minimum	+5 °C
Ambient Air Temperature	Maximum	+30 °C
	Minimum	+5 °C
Relative Air Humidity	80 % r.h. max	
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	Sika® Tramex moisture metre	≤ 4%
Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %

No rising moisture (ASTM D4263, polyethylene sheet)

Pot Life

Temperature	Time
+5 °C	~30 minutes
+10 °C	~30 minutes
+20 °C	~20 minutes
+30 °C	~15 minutes

Note: Do not leave mixed product in container after the end of the pot life. Fill container completely with quartz sand to stop the rapid exothermic reaction of the product which leads to foaming.

Curing Time

Substrate temperature	Maximum	Minimum
+5 °C	~3 day	~18 hours
+10 °C	~3 days	~12 hours
+20 °C	~2 days	~6 hours
+30 °C	~1 days	~3 hours

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	~72 hours
+10 °C	~12 hours	~15 hours	~24 hours
+20 °C	~6 hours	~11 hours	~14 hours
+30 °C	~3 hours	~9 hours	~12 hours

Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

VALUE BASE

All technical data in this document 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
- Sikafloor® cleaning concept
- System Data Sheet: Sikafloor® MultiDur ET-20
- System Data Sheet: Sikafloor® MultiDur EB-19

LIMITATIONS

- Uneven and / or dirty substrates must not be considered for thin coating application. All areas must always be prepared and cleaned thoroughly prior to 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

IMPORTANT
Strictly follow installation procedures
Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

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/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

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.Note: Avoid excessive mixing to minimise air entrainment.
4. To ensure thorough mixing, pour materials into another container and mix again for at least 1 minute to achieve a smooth and uniform mix. Note: Avoid excessive mixing to minimise air entrainment.
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
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.

IMPORTANT
Indentations
Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading may lead to indentations in the resin.
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® EpoCem®.
1. Contact Sika technical services for more information.

LEVELLING
After preparation, the substrate has a rough surface that will affect the finish of the coating.
1. Pour the mixed epoxy levelling mortar onto the prepared substrate and apply by trowel.
2. Confirm waiting / overcoating time has been achieved before applying subsequent products. Refer to the individual Product Data Sheet.

PRIMER
1. Pour the mixed primer onto the prepared substrate and apply by brush, roller or squeegee. IMPORTANT Do not blind the primer.
2. Back roller in two directions at right angles to each other. Note: Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.
3. Confirm waiting / overcoating time has been achieved before applying subsequent products. Refer to the individual primer Product Data Sheet.

TEXTURED COATING
Wait the appropraite overcoating time before applying the textured coatingt. Refer to the indiviudal primer Product Data Sheet.
1. Apply the Product onto the prepared substrate using a short-piled roller in two directions at right angles to each other. Note: A seamless finish can be achieved if a ‘wet’ edge is maintained during application.

SEAL COAT
Wait the appropraite overcoating time before applying the textured coatingt. Refer to the indiviudal broadcast coating Product Data Sheet.
1. Pour the mixed Product onto the textured coating and spread evenly using a squeegee to completely encapsulate the sand.
2. Back roll the surface in two directions at right angles to each other with a short-piled roller. Note: A seamless finish can be achieved if a ‘wet’ edge is maintained during application.

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

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.

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