

PRODUCT DATA SHEET

Sikafloor®-2640

EPOXY HIGH BUILD TEXTURED 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. Varying thickness's can be achieved from 0,6–0,8 mm. For medium - heavy wear conditions. Internal use.

USES

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

- Seal / top coat for slip resistant broadcast systems, such as multi-storey and underground car park decks, maintenance hangars and for wet process areas, e.g. beverage and food industry
- Coloured, slightly textured, roller coat for concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages and loading ramps

CHARACTERISTICS / ADVANTAGES

- Fast curing
- Low odour
- Low emission
- Low yellowing
- Improved blush resistance
- Seamless and hygienic
- Good mechanical resistance
- Easy application by roller and squeegee
- Gloss finish
- Slip resistant surface to suit clients requirements
- Low maintenance

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings

PRODUCT INFORMATION

Composition	Epoxy	
Packaging	Part A	26,7 kg containers
	Part B	3,3 kg containers
	Part A+B	30 kg ready to mix units
Appearance / Colour	Final floor appearance: Textured gloss finish	
	Resin - Part A	coloured, liquid
	Hardener - Part B	transparent, liquid

Available in various colour shades.

Applied colours selected from colour charts will be approximate.

For colour matching: Apply colour sample and confirm selected colour under real lighting conditions.

When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and per-

formance of the floor finish.

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.									
Density	<table><tr><td>Part A</td><td>~1,58 kg/l</td><td>(DIN EN ISO 2811-1)</td></tr><tr><td>Part B</td><td>~0,98 kg/l</td><td></td></tr><tr><td>Mixed resin</td><td>~1,48 kg/l</td><td></td></tr></table> All Density values at +20 °C.	Part A	~1,58 kg/l	(DIN EN ISO 2811-1)	Part B	~0,98 kg/l		Mixed resin	~1,48 kg/l	
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Part B	~0,98 kg/l									
Mixed resin	~1,48 kg/l									
Solid content by weight	~100 % Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)									
Solid content by volume	~100 %									
Product Declaration	EN 1504-2: Surface protection product for concrete - Coating EN 13813: Resin screed material for internal use in buildings									

TECHNICAL INFORMATION

Shore D Hardness	~78 (7 days / +23 °C)	(DIN 53 505)
Abrasion Resistance	~935 mg (H22/1000/1000) (7 days / +23 °C)	(DIN 53109)
Tensile Adhesion Strength	> 1,5 N/mm ² (failure in concrete)	(ISO 4624)

SYSTEMS

Systems	Refer to the following System Data Sheets: <ul style="list-style-type: none">▪ Sikafloor® MultiDur ET-20▪ Sikafloor® MultiDur EB-19
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APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 89 : 11 (by weight)								
Consumption	Refer to the following System Data Sheets: <ul style="list-style-type: none">▪ Sikafloor® MultiDur ET-20▪ Sikafloor® MultiDur EB-19								
Ambient Air Temperature	+10 °C min. / +30 °C max.								
Relative Air Humidity	80 % max								
Dew Point	Beware of condensation. The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the floor finish. Low temperatures and high humidity conditions increase the probability of blooming.								
Substrate Temperature	+10 °C min. / +30 °C max.								
Substrate Moisture Content	≤ 4 % parts by weight. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).								
Pot Life	<table><thead><tr><th>Temperature</th><th>Time</th></tr></thead><tbody><tr><td>+10 °C</td><td>~30 minutes</td></tr><tr><td>+20 °C</td><td>~20 minutes</td></tr><tr><td>+30 °C</td><td>~15 minutes</td></tr></tbody></table>	Temperature	Time	+10 °C	~30 minutes	+20 °C	~20 minutes	+30 °C	~15 minutes
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Curing Time

Substrate temperature	Minimum	Maximum
+10 °C	~14 hours	~2 days
+20 °C	~7 hours	~1 day
+30 °C	~5 hours	~1 day

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
+10 °C	~14 hours	~2 days	~3 days
+20 °C	~7 hours	~1 days	~2 days
+30 °C	~5 hours	~1 day	~1 days

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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.

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.

High spots can be removed by grinding.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-2640.

All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

MIXING

Prior to mixing all parts, mix separately Part A (resin) thoroughly using an electric single paddle mixer (300 - 400 rpm) or other suitable equipment. Add Part B (hardener) to Part A and mix Part A + B continuously for 3,0 minutes until a uniformly consistent mix has been achieved. To ensure thorough mixing pour materials into a clean container and mix again for at least 1,0 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = ~4,0 minutes.

APPLICATION

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

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures. If moisture content > 4% parts by weight, Sikafloor® EpoCem® may be applied as a Temporary Moisture Barrier (T.M.B.) system.

Primer

Pour mixed Sikafloor®-150 /-151/ -156 /-160 /-161 primer onto the prepared substrate and apply by brush, roller or squeegee then back roller in two directions at right angles to each other. Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

Confirm waiting /overcoating time has been achieved before applying subsequent products. Refer to individual primer Product Data Sheet.

Levelling

Rough surfaces must be levelled first using Sikafloor®-150/-151/-156 /-160 /-161 levelling mortar. Confirm waiting /overcoating time has been achieved before applying subsequent products. Refer to individual Product Data Sheet.

Textured coating

Pour mixed Sikafloor®-2640 onto the prepared substrate and apply using a short-piled roller in two directions at right angles to each other. A seamless finish can be achieved if a 'wet' edge is maintained during application.

Seal coat

After waiting the appropriate overcoating time / curing, pour the mixed Sikafloor®-2640 onto the textured coating and spread evenly using a squeegee at the required consumption rate (0,6-0,8 kg/m²) to completely encapsulate the sand. Then using a short-piled roller, back roller in two directions at right angles to each other. A seamless finish can be achieved if a 'wet' edge is maintained during application.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-2640 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, e.t.c. using suitable detergents and waxes. Refer to Sika® Method Statement: Sikafloor®-Cleaning Regime.

FURTHER INFORMATION

- Sika® Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika® Method Statement: Mixing & Application of Flooring Systems
- Sika® Method Statement: Sikafloor®-Cleaning Regime
- Sika® Method Statement: Sikafloor®-2640
- System Data Sheet: Sikafloor® MultiDur ET-20
- System Data Sheet: Sikafloor® MultiDur EB-19

IMPORTANT CONSIDERATIONS

- 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.
- Do not apply on substrates with rising moisture.
- Do not blind the primer.
- After application, product must be protected from damp, condensation and direct water contact for at least 24 hours.
- For areas with limited exposure and normal absorbent concrete substrates. Priming with Sikafloor®-150/-151/-156/-160/-161 is not necessary for roller or textured coating systems.
- If product is used for roller / textured sealer coats. 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.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-2640 in each area is applied from the same control batch numbers.
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to indentations in the resin.
- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce

large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

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.

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.

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.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type xx) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-2640 is < 500 g/l VOC for the ready to use product.

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.

Sika Hellas ABEE
15 Protomagias Str.
14568 Kryoneri
Attica-Greece
Tel.: +30 210 8160 600
Fax: +30 210 8160 606
www.sika.gr | sika@gr.sika.com



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