

Sikafloor®-325

Self-levelling polyurethane floor topping

Construction

Description Sikafloor-325 is a three component solvent-free pigmented self-levelling floor topping based on polyurethane.

Uses Sikafloor-325 can be applied on mineral based substrates such as:

- Concrete
- Mortar
- Epoxy modified cement mortars (ie. EpoCem)

Used as a broadcast floor topping for:

- Warehouses
- Cold storage facilities
- Parking decks and ramps
- Production and storage facilities

Used as a self levelling floor topping of 1.5-2.0mm thickness for:

- Industrial floors subjected to moderately heavy loading
- Cold storage facilities
- Production and storage facilities
- Factory work shops

Advantages

- Easy to apply
- Flexible and durable, even at low temperatures
- Solvent free, no fire risk
- Excellent adhesion to the substrate
- No seams or joints
- Waterproof
- Crack bridging
- Can colour match
- Easy to clean
- Anti-slip when broadcast
- Excellent abrasion and wear resistance

Test Reports

ISEGA, Ashchaffenburg (D): Safe for Contact with Foodstuff.

Storage & Shelf Life

Stored in the original sealed containers within the temperature range of +5°C to +30°C, this product will keep for a minimum of twelve (12) months.

Instructions for Use

Surface Preparation

Surface must be clean, dry and free from all traces of loose material, old coatings, curing membranes, release agents, laitance, oil and greases etc. Substrate compressive strength should be at least 25 MPa, cohesive bond strength at least 1.5 MPa.

Structurally unsound layers and surface contaminants must be mechanically removed by abrasive blasting, blast-tracking or grinding. Substrates heavily impregnated with oil must be cleaned by torching or suitable solvent cleaning methods. To check that all traces of oil have been completely removed, sprinkle a few drops of water over the surface. If the water is quickly absorbed, the surface is sufficiently oil and grease free. If the water forms into globules that remain on the surface, further thorough treatment of the concrete is necessary.

Surface Preparation (continued)	Sikafloor-325 acts as a self levelling coating and will not re-profile irregular substrates. For re-profiling defects on horizontal surfaces a suitable patching mortar is required. The patching mortar can be of epoxy or cementitious base depending on the scope, particular conditions and requirements of the work. Contact the Sika technical department for further information.	
Priming	<p>Apply Sikafloor-160 as a primer to the prepared substrate in accordance with the Technical Data Sheet. For the best results and to minimise pin-holing in the primer and the top-coat, apply Sikafloor-160 to substrates that are either decreasing in temperature or maintaining constant temperature.</p> <p>Substrates prone to rising moisture vapour (eg. slab on ground with no waterproof membrane underlay) should be treated with Sikagard-720 EpoCem or Sikafloor-81 EpoCem. These products provide a temporary moisture barrier so that the subsequent coatings can fully cure and bond to the substrate without interference from rising moisture. Substrates treated with EpoCem products in accordance with the Technical Data Sheets still require priming with Sikafloor-160 prior to the application of Sikafloor-325.</p>	
Coating System		
Self-Leveller	1. Self levelling floor topping (1.6 – 2.0 mm thick)	
	Primer	Sikafloor-160 (Comp. A+B)
	Self Leveller	Sikafloor-325 (Comp. A+B+C)
Anti-Slip Topping	2. Broadcast floor topping (3.0 – 4.0mm thick)	
	Primer	Sikafloor-160 (Comp. A+B)
	Base Coat	Sikafloor-325 (Comp. A+B+C)
	Anti-Slip Surface	Sikafloor-501
	Top Coat	Sikafloor-325
Mixing	<p>Stir Part A thoroughly with an electric stirrer prior to batching. Add Component B in the correct mix ratio & mix for 2-3 minutes at a low speed (300 –450 rpm) until thoroughly blended.</p> <p>Add the required quantity of Part C (Sikadur-508) gradually while continuing to mix, avoiding air entrapment in the manner of mixing. Mix until a homogenous consistency is achieved.</p>	
Application	<p>Apply to the floor in an even layer, using a notched trowel or spreader. Roll immediately with a spiked roller to ensure uniform thickness and remove entrapped air. Use a smaller flooring trowel or spreader around edges of floors.</p> <p>Caution: Uncured material reacts in contact with water (foaming). During application care must be taken that sweat does not drip into fresh Sikafloor-325 (wear head and wrist bands). For Sikafloor-160 please refer to the relevant Technical Data Sheet.</p>	
Cleaning	Clean all tools and equipment immediately after use with Sika Colma Cleaner. Once hardened, the material can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water.	
Technical and Physical Data		
Form	Part A:	Thixotropic Liquid
	Part B:	Low Viscosity Brown Liquid
	Part C:	(Sikadur 508) Quartz Sand
Density	Part A:	1.30 kg / litre approx.
	Part B:	1.24 kg / litre approx.
	Part A + B:	1.28 kg / litre approx.
	Part A + B + C:	1.60 kg / litre approx.



Mix ratio		Part A	Part B	Part C																																			
	Parts by mass	2.7	1.0	2.7																																			
	Parts by volume	2.6	1.0	2.2																																			
Consumption	Primer:	Sikafloor-160 0.2 – 0.5kg/m ² depending on substrate																																					
	Base Coat:	Sikafloor-325 (A+B+C) 3.2kg/m ² for an applied thickness of 2mm																																					
	Gritting (optional):	Sikadur 501 4kg/m ²																																					
	Sealer Coat (optional)	Sikafloor-325 (A+B) & Thinner C or 15, 0.6kg/m ²																																					
Rate of Reaction (20°C/75% r.h.)		10°C	20°C	30°C																																			
	Potlife	30 min	20 min	10 min																																			
	Can be walked on after	48 hours	24 hours	16 hours																																			
	Light mechanical loading permitted after	5 days	3 days	2 days																																			
	Fully cured after	14 days	7 days	5 days																																			
Chemical Resistance	Testing period: 42 days continuous (Sika method) at 20°C																																						
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Mechanical Strength (30 days @ 23°C)	Tensile Strength:	21.1 MPa																																					
	Elongation at break:	50%																																					
	Shore D Hardness:	76																																					
	Bond to Concrete:	>1.5 MPa (concrete failure)																																					
	Crack Bridging (static)	0.6mm approx.																																					



Limits on Application

- Do not apply when surface temperature is less than 3°C above dew point.
- Minimum substrate temperature +10°C.
- Maximum substrate temperature +25°C.
- Maximum relative humidity 70%.
- Apply Sikafloor-325 only to suspended concrete slabs, those laid on waterproof tanking membranes or those with moisture content less than 4%. The moisture content must remain at or below 4% for the duration of the cure period.
- Where moisture content of the slab is greater than 4%, EpoCem (Sikafloor-81, Sikagard-720) is recommended as a temporary moisture barrier.

Colour Typical RAL colours (refer to Sika Colour Selections Guide).

Packaging Sikafloor-325 Part A: 17.02kg
Part B: 6.7kg
Part C: 15kg
Pigment: 1.15kg
Total (A + B + C + Pigment) 39.9kg

Important Notes

- Maximum delay between priming and application of Sikafloor-325 is 48 hours at 20°C. Should this time be exceeded the primed surface must be lightly abraded and wiped with Sika Colma Cleaner prior to the application of Sikafloor-325. Minimum recoat time is 18 hours at 20°C.
- Uncured material reacts in contact with water. Care must be taken to ensure that water, sweat, etc. does not come into contact with fresh Sikafloor-325.
- It is recommended that the product be tested for tyre staining when applied in areas where vehicles are used. Following trials, if tyre staining does occur, please contact Sika Australia Technical Services or your local Sika representative for detailed information on cleaning and removal.

Handling Precautions

- Avoid contact with the skin, eyes and avoid breathing it's vapour.
- Wear protective gloves when mixing or using.
- If poisoning occurs, contact a doctor or Poisons Information Centre.
- If swallowed, do NOT induce vomiting. Give a glass of water.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.
- A full Material Safety Data Sheet is available from Sika on request.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

