

Sikafloor[®]-261

Solvent Free, Coloured, Universal Epoxy Resin Based Flooring System

Construction

Description

Sikafloor 261 is a 2-component solvent free pigmented epoxy resin based flooring system. The material can be classified into three systems:

1. Sikafloor-261: a high build roll on coat
2. Sikafloor-261 SL: a smooth self levelling floor topping system
3. Sikafloor-261 NS: an anti-slip self levelling floor topping system

Uses

As a high build roll on coating Sikafloor-261 or self-levelling floor topping Sikafloor-261 SL for:

- Food processing industry
- Chemical/pharmaceutical industry
- Power stations
- Plastics industry
- Laboratories and rooms subject to radiation
- Clean rooms, exhibition halls and showrooms
- Demonstration areas and training rooms
- Washrooms, cloakrooms

As an anti-slip self levelling floor topping Sikafloor-261 NS for:

- Wet and dry process areas ie. beverage industry, bottling plants, dairies, meat processing plant etc.
- Workshops and factories
- Warehouses, loading bays and ramps
- Hangars

For use on mineral-based substrates such as:

- Concrete
- Mortar
- Stone
- Epoxy Modified Mortars (EpoCem)

Advantages

- High mechanical properties
- Good abrasion resistance
- Good chemical resistance
- High durability
- Coloured
- Solvent free
- Jointless
- Easy and fast to apply
- Easily cleaned and maintained
- Waterproof

Storage and Shelf Life

Stored in original unopened containers within the temperature range of +5°C to +30°C this product will keep for a minimum of one (1) year.

Instructions for Use

Surface Preparation

Surfaces must be clean, dry and free from all traces of loose material, old coatings, curing compounds, release agents, laitance, oil and greases etc. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa and with moisture content below 4%.

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 all water is quickly absorbed, the surface is sufficiently oil and grease free. If water forms into globules that remain on the surface, further thorough treatment of the substrate is necessary.

Sikafloor-261 when used as a self-levelling floor topping will not reprofile irregular substrates. For reprofiling 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.



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Priming	<p>Apply Sikafloor-156 in accordance with the Technical Data Sheet. For the best results and to minimise pin-holing in the primer and the top coat, apply the Sikafloor-156 to substrates that are either decreasing in temperature or maintaining a constant temperature.</p> <p>Substrates prone to rising moisture vapour (eg. slab on ground with no waterproof membrane underlay) or with a moisture content in excess of 4% should be treated with Sikagard-720 EpoCem or Sikafloor-81 EpoCem. These products provide a temporary moisture barrier so that the subsequent epoxy coating 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 require no further priming once it's water content is less than 4%, prior to the application of Sikafloor-261.</p>
Mixing	<p>Prior to mixing, stir component A (resin) thoroughly. Add the pigment pack and all of component B (hardener) and mix components thoroughly with a low speed electric stirrer (300-400rpm) for a minimum of 3 minutes until a uniform mix has been achieved. For self-levelling floor toppings add the required quantity of Sikafloor-261 filler gradually while continuing to mix, avoiding air entrapment in the manner of mixing. Mix until a homogenous consistency is achieved.</p>
Cleaning	<p>All equipment should be cleaned immediately after use with Sika Colma Cleaner. Hardened material will have to be mechanically removed. Wash soiled hands and skin thoroughly in hot soapy water.</p>
Application	<p>Prior to application, confirm substrate moisture content is below 4%, where the substrate is above 4% Sikafloor EpoCem should be applied as a temporary moisture barrier.</p> <p>High build roll on coating Sikafloor-261: Apply mixed Sikafloor-261 onto unprimed substrate by brush or roller. For heavy duty service or for surfaces with abnormal absorbency, prime with Sikafloor-156.</p> <p>Self Levelling Floor Topping Sikafloor-261 SL: Pour mixed Sikafloor-261 onto primed substrate and spread evenly to the required thickness with a notched trowel. Roll immediately in two directions with a spiked roller.</p> <p>Anti-slip Self Levelling Floor Topping Sikafloor-261 NS: Apply Sikafloor-261 self levelling floor topping to primed or unprimed substrate depending on the condition of the substrate. Allow to partially cure and blind surface with kiln dried quartz sand as follows:</p> <ul style="list-style-type: none"> ▪ For a slightly textured, antislip finish: Sikadur-505. ▪ For a coarse-textured finish offering maximum grip: Sikadur 501. ▪ Carborundum can also be used for high durability anti-slip finishes. <p>Allow the Sikafloor-261 to cure and remove loose sand by vacuum. Apply sealer coat of unfilled Sikafloor-261 (part A + B) by short pile roller.</p>

Floor Coating Systems and Consumption Rates

ROLL ON COATING (Sikafloor-261)

Two Coats	Sikafloor-261 (Part A + B)
Material Consumption	Approx. 0.25-0.3 kg/m ² /coat (two coats required)

SELF-LEVELLING FLOOR TOPPING (Sikafloor-261 SL)

Primer	Sikafloor-156 (Part A + B)
Material Consumption	Approx. 0.3 – 0.5 kg/m ² or 3.0 m ³ /litre
Top Coat	Sikafloor-261 (Part A + B + C)
Floor Topping Thickness	1.6 mm to 3 mm
Material Consumption	Approx. 1.8 kg/m ² per mm thickness

ANTI-SLIP SELF-LEVELLING FLOOR TOPPING (Sikafloor-261 NS)

Primer (optional)	Sikafloor-156 (Part A + B)
Material Consumption	Approx. 0.3 - 0.5 kg/m ² or 3 - 4 m ² /litre
Base Coat	Sikafloor-261 (Part A + B + C) minimum 1.0 mm thickness
Material Consumption	Approx. 1.8 kg/m ² per mm (base coat)
Anti-Slip surface	Kiln dry quartz sand filler at 3-5 kg/m ² (granular size to suit anti-slip requirements)
Seal Coat	Sikafloor-261 (Part A + B)
Material Consumption	Approx. 0.6 kg/m ² per coat or 2.0 m ² /litre (seal coat)

Technical and Physical Data

Form	Part A	Viscous liquid		
	Part B	Slightly viscous transparent liquid		
	Part C	Fine sand filler		
Density (20°C)	Part A	1.52 kg/litre approx.		
	Part B	1.01 kg/litre approx.		
	Part A + B	1.36 kg/litre approx.		
	Part A + B + C	1.67 kg/litre approx.		
Mixing ratio		Part A	Part B	Part C
	Parts by mass	10	3	9.8 (approx.)
	Parts by volume	2.2	1	2.1 (approx. loose poured Volume)
Rate of Reaction		+10°C	+20°C	+30°C
	Pot Life	60 mins	30 min	15 mins
	Can be walked on after	2 days	1 day	1 day
	Light serviceable traffic	4 days	2 days	2 days
	Full cure	10 days	7 days	5 days
Mechanical Strength	Comprehensive strength EN 196-1	60 MPa, 28 days @ 23°C		
	Abrasion resistance DIN 53109	70 mg (Taber Abraser), 8 days @ 23°C		
	Shore D Hardness	77		
	Heat Resistance (without chemical or mechanical exposure)	80°C Damp 120°C Dry		
Colour	Dusty Grey RAL7037, Silver Grey RAL7001, Light Grey RAL7035, Beige RAL1001, Reed Green RAL6013, Koala Grey AS 2700, Sky Blue RAL5015, Oxide Red RAL3009, Traffic Black RAL9017, Ruby Red RAL3003. See Sikafloor Colour Chart.			
	<ul style="list-style-type: none"> ▪ All other standard RAL colours are available as per the RAL classic colour chart. ▪ Colours are produced as close as possible to production standards. ▪ Where colour shade is critical, a site trial is strongly recommended prior to proceeding with the work. ▪ Please ensure that finishing and application techniques remain consistent to prevent colour variation. 			

Packaging**Self Levelling**

	35 kg Kit	17.5 kg Kit
Part A	13.09 kg	6.55 kg
Pigment Pack	2 @ 1.15 kg	1.15 kg
Part B	4.60 kg	2.30 kg
Part C (filler)	15 kg*	7.5 kg*
Mixed Volume	20.4 Litres	10.2 Litres
	* Can vary between 13 – 16kg depending on flow requirements	* Can vary between 6.5 – 8.0 kg depending on flow requirements

Roll Coat

	20 kg Kit	10 kg Kit
Part A	13.09 kg	6.55 kg
Pigment Pack	2 @ 1.15 kg	1.15 kg
Part B	4.60 kg	2.30 kg
Mixed Volume	14.7 Litres	7.4 Litres

Note : All components are available in bulk packaging if required for site batching.

Construction



Chemical Resistance of Sikafloor-261**Testing Time: 42 days permanent exposure (Sika Method)****Testing Group according to DIBT/medium**

1	3- and 4- Star petrol	B	8	Aliphatic aldehyde	A
2	Jet fuel	A	9	10% acetic acid 20% acetic acid	A, D, B, D
3	Fuel oil	A	10	20% sulfuric acid	A, D
4	Aromatic hydrocarbons	B	11	20% caustic soda (sodium hydroxide)	A
5	Alcohols	B	12	Amine	C
6	Trichloroethylene	C	13	Aqueous solutions of organic detergents	A
7	Esters and ketones	C			

A = Resistant Minor loss in hardness (0-20% Shore D), no formation of bubbles, no debonding, no/minor swelling.
 B = Limited resistance Moderate loss in hardness (20-40% Shore D), no formation of bubbles, no debonding, visible swelling.
 C = Not resistant Considerable loss in hardness (>40% Shore D), or formation of bubbles, or loss of adhesion or partial/complete destruction of the coating.
 D = Discolouration or loss of gloss

Important Notes

- Maximum delay between priming and application of Sikafloor-261 is 48 hours @ 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-261.
- For cleaning and maintenance instructions contact the Sika Technical Department for further information.
- Component A must be thoroughly stirred with a mechanical mixer prior to batching.
- The substrate temperature should be at least 3°C above the dew point.
- Not to be applied to moist substrates (max. 4% moisture content) unless previously treated with EpoCem.
- As is common with most epoxy coatings, Sikafloor-261 will yellow and then chalk on exposure to UV radiation (sunlight). Areas indoors that receive direct sunlight exposure for some intervals during the day, such as those adjacent to doorways and windows can be overcoated within 48 hours of the application of the final coat with Sikafloor® PU
- The amount of filler Sikafloor-261 Part C that can be added to the Sikafloor-261 (Part A + Part B) may alter depending on the ambient temperature.

Handling Precautions

- Avoid contact with skin, eyes and avoid breathing in vapour.
- Wear protective gloves when mixing or using this product.
- 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, wash immediately and thoroughly with soap and water.
- If in contact with eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Limits on Application

- Minimum air and substrate temperature +10°C.
- Maximum air and substrate temperature +30°C.
- Maximum air humidity 85% r.h.
- Substrate temperature must be at least 3°C greater than the dewpoint at the time of application.
- Where the moisture content of the substrate is greater than 4% EpoCem (Sikafloor-81 EpoCem, or Sikagard-720 EpoCem) is to be used as a temporary moisture barrier.
- 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 Australian version 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.

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