

BUILDING TRUST

PRODUCT DATA SHEET Sikafloor[®]-41 IN

MEDIUM TO HEAVY DUTY, SELF-SMOOTHING, POLYURETHANE HYBRID FLOORING SYSTEM

DESCRIPTION

Sikafloor[®]-41 IN is a four components, selfsmoothing, water based coloured polyurethane hybrid flooring system. It has flat, high abrasion, chemical, impact and slip-resistant finish. It is typically installed at 4 to 6 mm thickness including scratch coat.

USES

Sikafloor[®]-41 IN is used as a scratch coat or wearing coat layer in cementitious polyurethane flooring systems such as in:

- Production area
- Chemical plants
- Laboratories
- Workshops
- Textile and film plants
- Warehousing and storage
- Electronic component manufacture and assembly
- Pharmaceutical plants
- Hotel kitchens

PRODUCT INFORMATION

CHARACTERISTICS / ADVANTAGES

- Good resistance to specific chemicals
- High mechanical and wear resistance
- Low VOC emissions
- Odourless
- Non-tainting
- Thermal expansion properties similar to concrete
- Tolerant to substrates with high moisture content

Chemical base	Water based polyurethane cement hybrid	
Packaging	Part A+B+C+A1 pre-batched	20.6 kg set
	Part A (Resin)	2.88 kg container
	Part B (Hardener)	3.10 kg container
	Part C (Filler)	14.12 kg bag
	Part A1 (Pigment)	0.5 kg container
Appearance / Colour	Part A	White liquid
	Part B	Dark brown liquid
	Part C	Off-White powder
	Part D	Liquid colour (Grey, Light Grey, Green, Yellow, Red, Blue, Cream)

IMPORTANT

When the product is exposed to direct UV exposure (sun, lamp, skylight,

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	influence on the function IMPORTANT For colour matching: Appl der real lighting condition IMPORTANT	be completely guaranteed t	oduct. n selected colour un-
Shelf life	Part A	6 months from Protect from fr	date of production. eezing.
	Part B	6 months from Protect from fr	date of production.
	Part C		date of production.
	Part D		date of production.
Storage conditions		ed in original, unopened an ns at temperatures betweer	
Density	~1.86 kg/L (Part A+B+C+A	1 mixed, +27°C)	(EN ISO 2811-1)
Thickness	4-6mm		
Shore D hardness	~80 (7d, +27°C)		(ASTM D2240)
Abrasion resistance	>100mg (7d, +27 °C, CS17	/1000cycle/1000gm)	(ASTM D4060)
Compressive strength	~40-44 N/mm2 (28 d, +23	°C)	(ASTM C579)
Flexural strength	~14 N/mm2 (28d, +23°C)		(DIN EN 196)
Tensile strength	~7 N/mm2 (28d, +27°C)		(ISO 527-1A)
Tensile adhesion strength	~3 N/mm2 (concrete failu	re)	(EN 1542)
Chemical resistance	Resistant to many chemic information.	als. Contact Sika Technical S	Services for additional
Heat resistance	Sikafloor®-41 IN can be su imum -5°C at 6 mm thickr	ibject to thermal shock max ness	imum +70°C and min-

APPLICATION INFORMATION

Mixing ratio	Part A : Part B : Part C : Part A1 = 2.88 : 3.10 : 14.12 : 0.50		
Consumption	Layer Scratch coat Body coat / Topping This figure is theoretic	Product Sikafloor®-41 IN Sikafloor®-41 IN	Consumption ~1.9 kg/m2 ~1.9 kg/m2 per mm
	This figure is theoretical and does not allow for any additional material du to surface porosity, surface profile, variations in level or wastage etc.		
Product temperature	Pre-condition material for minimum 24h between +20 °C to +23 °C (In summer condition) Pre-condition material for minimum 24h between +27°C to +28°C (In winter condition)		
Ambient air temperature	+18 °C min. / +35 °C max.		
Relative air humidity	80 % max		
Dew point		ured applied product m	ust be at least +3 °C above or blooming on the surface

dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions in-

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crease the probability of	f blooming.	
+18°C min. / +35°C max.		
Please refer to the Product Data Sheet of base layer or primer. The product can be installed on substrates with a higher moisture content. No ponding water may be present on the surface. Check for rising moisture. The substrate must be visibly dry and must have a minimum pull-off strength of 1.5 N/mm2.		
Before overcoating Sikafloor [®] -41 IN allow:		
Substrate temperature	Minimum	Maximum
+20°C	24 hours	48 hours
+30°C	16 hours	48 hours
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Ensure that the primer or scratch coat is fully cured before the application of subsequent Sikafloor [®] -41 IN layers		
	 +18°C min. / +35°C max. Please refer to the Prod can be installed on subs water may be present o strate must be visibly dr 1.5 N/mm2. Before overcoating Sikat Substrate temperature +20°C +30°C Note: Times are approxi conditions, particularly to primer or scratch coat is 	Please refer to the Product Data Sheet of to can be installed on substrates with a higher water may be present on the surface. Check strate must be visibly dry and must have a 1.5 N/mm2. Before overcoating Sikafloor®-41 IN allow: Substrate temperature Minimum +20°C 24 hours +30°C 16 hours Note: Times are approximate and will be a conditions, particularly temperature and reprimer or scratch coat is fully cured before

System structure	Layer	Product
	Scratch coat	1-2 Sikafloor [®] -41 IN
	Body coat / Topping	Sikafloor [®] -41 IN

scrach coat to seal the porosity or pin holes.

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.

IMPORTANT CONSIDERATIONS

- It is advisable to perform a groove along the perimeter of the application area particularly if there are columns or gullies in the floor surface, as indicated in the application details of the System Data Sheet, to prevent curling during curing. Width and depth must be twice the thickness of the floor finish.
- In cases where thermal stress is expected the formation of retaining grooves is a must also on the layer of standard mix of Sikafloor®-41 IN.
- Do not apply to PCC (polymer modified cement mortars) that may expand due to moisture when sealed with an impervious resin.
- Always ensure good ventilation when using Sikafloor®-41 IN in a confined space, to prevent excessive ambient humidity.
- Freshly applied Sikafloor[®]-41 IN must be protected from damp, condensation and direct water contact (rain) for at least 24 hours.
- Protect the substrate during application from condensation from pipes or any overhead leaks.
- Do not apply to cracked or unsound substrates. Do not apply to porous surfaces where significant moisture vapour transmission (outgassing) will occur during application.
- For consistent results it is advised to always use the scratch coat prior to placing Sikafloor[®]-41 IN on any substrate.
- Always allow a minimum of 48 hours after product

application prior to placing into service in proximity with food stuffs.

- Products of the Sikafloor[®]-41 IN product range are subject to discolouration when exposed to UV radiation. Extent depends on colour. There are no measurable losses of any properties when this occurs and it is a purely aesthetical matter.
- Products can be used outside provided the change in appearance is acceptable for the customer.
- In some slow curing conditions, soiling of the surface may occur when opened to foot traffic, even though mechanical properties have been achieved. It is advised to remove dirt using a dry mop or cloth. Avoid scrubbing with water for the first three days.
- Hot steam cleaning may lead to delamination due to thermal shock.
- Do not apply to water soaked, glistening wet concrete substrates.
- Do not apply below +18 °C or above +35 °C or a maximum relative humidity 85 %.
- Product/components have to be preconditioned for minimum 24 hours proior to application to get good performence.
- Soft wood or urethane composition, elastomeric membrane and fibre reinforced polyester (FRP) composites.
- Do not apply to wet or green concrete or polymer modified patches if the moisture content is above 10
- Do not mix Sikafloor[®]-41 IN products by hand. Use only mechanical means.
- Colour uniformity can not be completely guaranteed from batch to batch (numbered). Take care when using Sikafloor[®]-41 IN products to draw from inventory in batch number sequence. Do not mix batch numbers in a single floor area.
- Sikafloor[®]-41 IN is not recommended for shock



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ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT

- Electric double paddle mixer (>700 W, 300 to 400 rpm)
- Forced action / rotating pan / double paddle or trough type mixer (300–400 rpm)
- APPLICATION EQUIPMENT
- Notch trowel
- Pin rack
- Flat trowel
- Spiked roller
- Spike shoes
- Hygrometer
- Temprature gun
- Moisture meter

SUBSTRATE QUALITY

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm2) with a minimum pull off strength of 1.5 N/mm2.
- The substrate must be clean, dry and free of all contaminants such as oil, grease, coatings and surface treatments, etc.
- The product can be applied on green or damp concrete with no standing water. Allow for at least 7 days for early concrete shrinkage to occur to prevent shrinkage cracks from appearing on the wearing surface.

SUBSTRATE PREPARATION

Substrate primer

Substrate priming is not required under normal circumstances. However due to variations in concrete quality, surface conditions, surface preparation and ambient conditions, reference test areas are recommended to determine whether priming is required to prevent the possibility of blisters, de-bonding pinholes and other aesthetic variations.

IMPORTANT Incorrect treatment of cracks

The incorrect assessment and treatment of cracks may

lead to a reduced service life and reflective cracking.

- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to substrate, filling of blowholes/voids and surface levelling must be carried out using appropri-

Product Data Sheet Sikafloor®-41 IN July 2025, Version 01.01 020814020020243611 ate products from the Sikafloor[®], Sikadur[®] and Sikagard[®] range of materials.

- High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- To prevent curling of the applied product during curing, place retaining grooves in the substrate along all exposed edges (perimeter, joints, connections, plinths, columns, covings and drains / gullies) as shown in the application details of the Sika Method Statement: Sikafloor[®]-41 IN. Width and depth must be twice the thickness of the floor finish.

MIXING

IMPORTANT

Mix full units only

- Mix Part A (resin) individually & then add A1(Pigment) and mix for ~30 seconds.
- Add Part B (hardener) to Part A. Mix Part A + B continuously for 30 seconds until a uniformly coloured mix is achieved.
- After mixing for 30 seconds, gradually add Part C while you continue mixing.
- After combining all parts, mix for an additional 2 minutes, until a uniform mix is achieved. Note: At ambient temperatures @ +18 °C need little longer mixing to get the materials mixed temprature 25deg C.
- To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
- 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

Protecting the material after application

After application, protect the system from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Protect from overhead leaks and condensation

Protect the product during application from pipe condensation or any overhead leaks.

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space IMPORTANT

IMPORTANT

Application on polymer modified cement mortars Do not apply the product on polymer modified cement mortars if the mortar expands when sealed with an impervious resin.

IMPORTANT

Waiting time for foodstuff

Allow a minimum of 48 hours after application before placing foodstuff in the same area. SCRATCH COAT

- Pour the mixed product onto the prepared substrate.
- Scrape the product into the prepared surface with a steel trowel to the required thickness so that the sur-



face texture is filled.

WEARING LAYER

- Pour the mixed product onto the substrate. Note: The consumption is specified in application Information.
- Apply the product evenly over the surface with a pin rack or a notch trowel.
- Back roll the surface in two directions at right angles with a spike roller. Note: Maintain a "wet edge" during application to achieve a seamless finish.

CLEANING OF TOOLS

Clean all tools and application equipment with xyline or suitable Thinner immediately after use. Hardened material can only be removed mechanically.

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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