

PRODUCT DATA SHEET

Sikafloor® Workshop CN

3-Part Versatile Coloured Epoxy Resin System

DESCRIPTION

Sikafloor® Workshop CN is a three part, multi-purpose, high build, coloured epoxy resin. Because of its low viscosity, it can be applied as a roll-coat, self-levelling coating, and non slip seal coat layer.

USES

Roller, broadcast and thin self-smoothing coating for concrete and cement screeds with normal up to medium heavy traffic area. Such as warehouse, underground parking lot, hallways, changing rooms, maintenance workshops, etc. Interior applications only.

CHARACTERISTICS / ADVANTAGES

- Good mechanical resistance
- Easy to apply
- High performance and cost effective
- Solvent-free
- Durable, impermeable and seamless

APPROVALS / STANDARDS

GB/T 22374-2018

PRODUCT INFORMATION

Chemical Base	Epoxy	
Packaging	Part A:	21.3 kg/pail
	Part B:	4.7 kg/pail
	Part C(Sikafloor®- Colourpack):	1.5 kg/pail
	Part A+B+C:	27.5 kg/set
Appearance / Colour	Resin - Part A:	Grey white, liquid
	Hardener - Part B:	Transparent, liquid
	Colour paste-Part C :	Colours, Window Grey, Light Grey, Dusty Grey and Beige.
	Under direct sunlight, their colours may dull and fade, but this does not affect the nature and function of the material itself.	
Shelf Life	24 months(Sikafloor®-Colourpack 12 months)	
Storage Conditions	Store in cool and dry environments between +5°C and +30°C in the original sealed package, properly protected from direct sunlight.	

Density	Part A:	~ 1.6 kg/l	GB/T 6750-2007
	Part B:	~ 1.0 kg/l	
	Part C:	~ 1.2 kg/l	
	Mixed resin:	~ 1.52 kg/l	
	Mixed resin (with 20% weight of Sikafloor Aggregate-508 added)	~ 1.67 kg/l	
	Mixed resin (with 50% weight of Sikafloor Aggregate-508 added)	~ 1.71 kg/l	
	Mixed resin (with 100% weight of Sikafloor Aggregate-508 added)	~ 1.94 kg/l	
	All Density values at +23°C.		

Volatile organic compound (VOC) content	≤ 60g/L	GB/T 22374-2018
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TECHNICAL INFORMATION

Abrasion Resistance	≤ 0.03g	GB/T 22374
Resistance to Impact	heavy load	GB/T 22374-2018
Compressive Strength	≥45 MPa	GB/T 22374-2018
Tensile Adhesion Strength	≥2.0Mpa	GB/T 22374-2018
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	
Coefficient of Friction	≥0.5(Dry friction of coefficient)	GB/T 22374-2018

APPLICATION INFORMATION

Mixing Ratio	Part A :Part B = 81.9:18.1(by weight) Part A : Part B :Part C = 77.45:17.10: 5.45(by weight)
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Consumption

Coating System	Product	Consumption
Primer*	Sikafloor® Workshop CN	0.30 - 0.50 kg/m ²
Levelling mortar fine* (surface roughness < 1 mm)(optional)	1 pbw Sikafloor® Workshop CN + 0.5 pbw quartz sand (0.1 - 0.3 mm or Sikafloor Aggregate-508) + 0.015 pbw Extender T	1.7 kg/m ² /mm (mixture)
Levelling mortar medium (surface roughness up to 2 mm)*(optional)	1 pbw Sikafloor® Workshop CN + 1 pbw quartz sand (0.1 - 0.3 mm or Sikafloor Aggregate-508) + 0.015 pbw Extender T	1.9 kg/m ² /mm (mixture)
Intermediate layer (self-smoothing 1.5 to 3 mm)*(optional)	1 pbw Sikafloor® Workshop CN + 0.8-1 pbw quartz sand (0.1 - 0.3 mm or Sikafloor Aggregate-508)	1.9 kg/m ² /mm (mixture) (i.e. 0.95 kg/m ² binder + 0.95 kg/m ² quartz sand) per mm layer thickness
Intermediate layer light non-slip	1 pbw Sikafloor® Workshop CN + broadcast Sikafloor Aggregate-508	0.50 kg/m ² + 4-6 kg broadcast Sikafloor Aggregate-508
Intermediate layer heavy non-slip	1 pbw Sikafloor® Workshop CN + broadcast Sikafloor Aggregate-501	0.50 kg/m ² + 4-6 kg broadcast Sikafloor Aggregate-501
Top Coating		
A Roll Coat	Sikafloor® Workshop CN	1–2 × 0.3 kg/m ² (0.2L/m ²) for each layer
B.Self-smoothing (Film thickness 1.0-1.5 mm)	1 pbw Sikafloor® Workshop CN+ 0.2 pbw quartz sand (Sikafloor Aggregate-508)	~1.70 kg/m ² /mm mixture (1.4kg/m ² binder + 0.3 kg/m ² quartzsand)
C.Self-smoothing (Film thickness >1.5 mm)	1 pbw Sikafloor® Workshop CN+ 0.5 pbw quartz sand (Sikafloor Aggregate-508)	~1.71 kg/m ² /mm mixture (1.14kg/m ² binder + 0.57 kg/m ² quartzsand)
B. Broadcast surface seal coat	Sikafloor® Workshop CN	0.6-0.7 kg/m ² (~0.4-0.47L/m ²)

*Part C can be dispensed with to reduce costs

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. In self leveling system the Sikafloor Aggregate-508 recommended addition amount is based on air or substrate temperature of around 23 °C.

The amount of quartz sand added during on-site construction can be adjusted according to the on-site temperature and construction thickness: The higher the thickness and temperature, the higher the appropriate amount of sand that can be added to the mix. Inversely, the lower the thickness and temperature, the lower the appropriate amount of sand that can be added to the mix.

Ambient Air Temperature	+10°C min. / +30°C max.
Relative Air Humidity	80% r.h. max.
Dew Point	Beware of condensation! The substrate must be at least 3°C above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the floor finish.

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-meth- od.No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	Temperature	Time	
	+10°C	~50min	
	+20°C	~25min	
	+30°C	~15min	
	Note: Times are approximate and will be affected by changing ambient condition.		
Waiting Time / Overcoating	Before applying Sikafloor® Workshop CN on Sikafloor® Workshop CN, al- low:		
	Substrate temperature	Minimum	Maximum
	+10°C	24 hours	3 days
	+20°C	12 hours	2 days
	+30°C	6 hours	1 day
	Times are approximate and will be affected by changing ambient condi- tions particularly temperature and relative humidity.		
	Applied Product Ready for Use	Temperature	Foot traffic
+10°C		~ 30 hours	~ 6 days
+20°C		~ 24 hours	~ 3 days
+30°C		~ 16 hours	~ 2 days
			Full cure
			~ 10 days
		~ 7 days	
		~ 5 days	
Note: Times are approximate and will be affected by changing ambient conditions.			

SYSTEM INFORMATION

Systems	Roll-on Coating	
	Primer:	1 x Sikafloor® Workshop CN
	1 st layer:	1 x Sikafloor® Workshop CN
	2 nd layer Optional:	1 x Sikafloor® Workshop CN
	Self-smoothing system :	
	Primer:	1 x Sikafloor® Workshop CN
	Wearing course:	1 x Sikafloor® Workshop CN + quartz sand (Sikafloor Aggregate-508)
	Light texture non-slip:	
	Primer:	1 x Sikafloor® Workshop CN
	1 st layer:	1 x Sikafloor® Workshop CN + 4-6 kg/m² broadcast Sikafloor-508
	2 nd layer:	1-2 x Sikafloor® Workshop CN
	Heavy texture non-slip :	
	Primer	1 x Sikafloor® Workshop CN
	1 st layer:	1 x Sikafloor® Workshop CN + 4-6 kg/m² broadcast Sikafloor-501
	2 nd layer:	1-2 x Sikafloor® Workshop CN

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.

LIMITATIONS

- A small-area test should be conducted before large-scale construction to determine the influence of the substrate and environment on the material and to confirm the final effect of the product.
- 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.
- 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.
- It is necessary to increase the coating weight per unit area to ensure coverage when the product is used in thin coats for light colours.
- When applying thin coating on the product, it is not advisable to use less than $\geq 0.3\text{kg/m}^2$, as lower coating weight can easily lead to poor paint film appearance and defects at low temperatures.
- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor® Workshop CN 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.
- Epoxy products can cause yellowing under the action of UV light, and yellowing has no major impact on the other properties of the product, which is purely a matter of aesthetic appearance.

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

Sikafloor® Workshop CN must be mechanically mixed using an electric power stirrer (300 - 400rpm) or other suitable equipment.

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete needs to be of sufficient strength (compressive strength of at least 25 MPa and tensile strength of at least 1.5 MPa).
- The surface must be flat, dry and free from loose particles.
- The surface must be clean and free from dirt, grease, etc.
- If you are not sure about the surface base, please do a small sample test first.
- Mechanical methods such as grinding or shotblasting must be used to achieve an open textured surface.
- Loose concrete must be removed, and voids and air holes in the concrete surface must be completely exposed.
- Repairing and filling of voids/pores in the concrete surface should be carried out using the appropriate Sika special systems Sikafloor®, Sikadur® and Sikagard®.
- Concrete substrates should be treated and leveled in order to obtain a flat and aesthetic surface.
- Remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.

MIXING

COATING MIXING PROCEDURE

1. Mix Part A (resin). Once mixed add the colour pack and mix for one minute until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A. IMPORTANT Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniformly coloured mix is achieved.
3. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
4. 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.
5. If using quartz sand 0.1 - 0.3 mm or Sikafloor Aggregate-508, mix as detailed above before adding the sand and then mix for a further 2 minutes.
6. Over mixing must be avoided to minimise air entrainment.

APPLICATION

Check and confirm the moisture content and dew point of the substrate before application. If the moisture content of the substrate is > 4%, it is necessary to use Sikafloor® EpoCem® as a T.M.B. system (temporary moisture barrier).

Leveling: Rough surfaces have to be leveled first, so Sikafloor® Workshop CN transparent leveling compound can be used (see Technical Data Sheet).

SELF LEVELLING: After spreading the material with a, Sikafloor® Workshop CN immediately defoam the material by rolling a spiked roller back and forth in two directions at right angles, to ensure an even thickness is achieved and any excess air is removed.

ROLL-ON COATING

Pour the mixed Product onto the substrate. Note For consumption, refer to Application Information. Apply the product with a short pile roller in two directions at right angles.

SLIP-RESISTANT BROADCAST LAYER

Pour the mixed Product onto the prepared substrate. Apply the Product evenly over the surface with a trowel or squeegee. Back-roll the surface in two directions at right angles.

Broadcast the surface with quartz sand (Sika Aggregate-501 or 508) lightly at first, then to excess. Note The aggregate is dependant on the system build-up.

Refer to this data sheet.

Once cured remove all loose sand with industrial vacuuming equipment.

SEAL COAT FOR BROADCAST SURFACES

Pour the mixed Product onto the substrate. Note For consumption, refer to Application Information. Spread the Product evenly over the surface with a squeegee.

Back-roll the surface in two directions at right angles with a fleece roller. Note Maintain a "wet edge" during application to achieve a seamless finish.

CLEANING OF TOOLS

Clean all tools and application equipment with 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® Workshop CN 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.

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Product Data Sheet

Sikafloor® Workshop CN
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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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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