BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® Workshop CN

3-Part Versatile Colored Epoxy Resin System

DESCRIPTION

Sikafloor® Workshop CN is a three part, multi-purpose, high build, coloured epoxy resin.

USES

Roller, textured coat,broadcast and thin self-smoothing coating for concrete and cement screeds with normal up to medium heavy traffic area. Such as warehouse, hallways, maintenance workshops, etc.

FEATURES

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

CERTIFICATES AND TEST REPORTS

Meet to the requirements of GB/T 22374

PRODUCT INFORMATION

Composition	Epoxy	
Packaging	Part A:	20.5 kg containers
	Part B:	5.5 kg containers
	Color pack:	1.0 kg containers
	A+B+Color pack:	27 kg/set
Appearance and colour	resin - part A:	grey white, liquid
	Hardener - part B:	transparent, liquid
	Color pack:	color, liquid
	For colours range, please inquire Sika. Under direct sun radiation there may be some discoloration and color deviation.	
Shelf life	24 months from date of production	
Storage conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.	
Density	Part A:	~ 1.6 kg/l
	Part B:	~ 1.0 kg/l
	Colorpack:	~ 1.2 kg/l
	Mixed resin:	~ 1.4 kg/l
	All Density values at +23°C.	
Volatile organic compound (VOC) content	<60g/L	GB/T 22374

Solid content by mass	~ 100%	
Solid content by volume	~ 100%	
Shore D Hardness	~73 (7d,+23°C)	GB/T 22374
Abrasion resistance	<30 mg	GB/T 22374
Compressive strength	~53 N/mm² (28d,+23°C)	GB/T 22374
Tensile adhesion strength	>1.5Mpa	GB/T 22374
Chemical resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	

Temperature resistance

Exposure*	Dry heat
Permanent	+50°C
Short-term max. 7 d	+80°C
Short-term max. 12 h	+100°C

Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.)
*No simultaneous chemical and mechanical exposure.

Mixing ratio

Part A : Part B = 82:18 (by weight)

Consumption

Coating System	Product	Consumption
Primer	Sikafloor® Workshop CN	0.30 - 0.50 kg/m²
Roller coating	2 x Sikafloor® Workshop CN	0.25-0.30 kg/m² for each layer
Textured coating (Film thickness ~ 0.5 mm)	1st layer Sikafloor® Workshop CN 2nd layer Sikafloor® Workshop CN + Extender T	~0.25 kg/m² ~0.30 kg/m² + 1.0 - 2% (by weight)
Self-smoothing (Film thickness 1.0-1.5 mm)	1 pbw Sikafloor® Workshop CN + 0.2 pbw quartz sand (Sikadur®-505 Q)	~1.70 kg/m² /mm mixture (1.4kg/m² binder + 0.3 kg/m² quartzsand)

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

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. Be aware that the substrate temperature may be lower than the ambient temperature.

Substrate temperature

+10°C min. / +30°C max.

Substrate moisture content

< 4% pbw moisture content measured with Sika®-Tramex or Tramex® CME/CMExpert type concrete moisture meter
Test method: As per ASTM F2659 or CM - measurement.
No rising moisture according to ASTM (Polyethylene-sheet).

Pot Life

Temperature	Time
+10°C	~50min
+20°C	~25min
+30°C	~15min

Curing time

Waiting time to overcoating

Before applying Coloured Sikafloor®- Workshop CN on Sikafloor®- Workshop CN, allow:

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 conditions particularly temperature and relative humidity.

Applied product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 30 hours	~ 6 days	~ 10 days
+20°C	~ 24 hours	~ 3 days	~ 7 days
+30°C	~ 16 hours	~ 2 days	~ 5 days

Note: Times are approximate and will be affected by changing ambient conditions.

SYSTEM INFORMATION

Systems

Roller coating:

Primer:	1 x Sikafloor® Workshop CN
Coating:	2 x Sikafloor® Workshop CN

Textured coating:

Primer:	1 x Sikafloor® Workshop CN
1st layer:	1 x Sikafloor® Workshop CN
2nd layer:	1 x Sikafloor® Workshop CN mixed with Extender T

Self-smoothing system 1.0-1.5 mm:

Primer:	1 x Sikafloor® Workshop CN
Wearing course:	1 x Sikafloor® Workshop CN + quartz sand (Sikadur® 505Q)

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor® Workshop CN on substrates in which significant vapour pressure may occur.
- Freshly applied Sikafloor®- Workshop CN must be protected from damp,condensation and water for at least 24 hours.
- Avoid puddles on the surface with the primer.
- For roller / textured coatings: Uneven substrates as well as inclusions of dirt cannot and should not be covered by thin sealer coats. Therefore both substrate and adjacent 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 color matching, ensure the Sikafloor®- Workshop CN in each area is applied from the same control batch numbers.
- Material Temperature: Precondition material for at least 24 hours between 18° to 24°C
- Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 18˚C will result in a decrease in product workability and slower cure rates.
- Mixing: Do not hand mix Sikafloor materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.
- Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, low cure, soft spots, and other defects.
- Application: If used as a primer apply material to the prepared substrate using a squeegee and back roll to provide uniform coverage. Ensure that the substrate is pore-free and pinhole free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.
- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.

ECOLOGY, HEALTH AND SAFETY

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

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 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 dirt, oil, grease, coatings and surface treatments, etc.
If in doubt, apply a test area first.
Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface (CSP-3 to CSP-4 as per ICRI guidelines).
Whenever “shot-blasting” is utilized, be careful to leave concrete with a uniform texture. “Overblasting” will result in reduced coverage rates of the primer and/or subsequent topcoats. The “shotblast” pattern may show through the last coat, known as “tracking”.
Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
Repairs to substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor®, Sikadur® and SikaGard® range of materials.
The concrete or screed substrate has to be primed or levelled up in order to achieve an even surface.
High spots must be removed by e.g. 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.

MIXING

Prior to mixing stir part A mechanically. Then add totally color pack to mix for 1 minutes until the color is uniform.
Then all of part B has been added to part A, continuously mix for 2 minutes until a uniform mix has been achieved.When parts A and B and color pack have been mixed, the quartz sand 0.1 - 0.3 mm or Sikadur® -505Q must be mixed with part A and B and color pack for a further 2 minutes until a uniform mix has been achieved.
To ensure thorough mixing pour materials into another container and mix again to
achieve a consistent mix. Over mixing must be avoided to minimize air entrainment.

APPLICATION

Prior to application, confirm substrate moisture content, r.h. and dew point. Moisture content of concrete substrate must be ≤ 4% by mass (pbw – part by weight) as measured with a Sika Tramex or Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw – part by weight) as measured with Sika Tramex or Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor Sikafloor® 81 EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.
Coating:
Sikafloor® Workshop CN as coating, can be applied by short-piled roller (crosswise).
Coating layer, textured:
Sikafloor® Workshop CN is applied with a medium piled roller and then back-rolled (crosswise) with a textured roller.
Thin self-leveling layer:
Sikafloor® Workshop CN is applied with a fine serrated trowel, (max. 1 mm teeth), Roll immediately in two directions with a spiked roller to ensure even thickness and to remove entrapped air.
Seal coat:
Sealer coats can be applied by roller or squeegee and then back-rolled (crosswise) with a short-piled roller.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Thinner C immediately after use.
Hardened / cured material can only be mechanically removed.

MAINTENANCE INSTRUCTIONS

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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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