

Sikafloor[®]-266 CR

2-part low-emission self-smoothing, textured and roller coating epoxy resin system

Description	Sikafloor [®] -266 CR is a two part, low-emission, self-smoothing, textured and roller coating epoxy resin system designed for cleanrooms.
Uses	<ul style="list-style-type: none"> ▪ Especially designed for the in cleanroom environment, where low VOC and particle emissions are mandatory. ▪ Also suitable as a hard wearing course for many industries, such as automotive, pharmaceutical, storage facilities and warehouses.
Advantages	<ul style="list-style-type: none"> ▪ Good chemical and mechanical resistance ▪ Easy to clean ▪ Economical ▪ Liquid proof ▪ Solvent-free ▪ Gloss finish ▪ Slip resistant surface possible ▪ Low VOC-content Cetec Emission Study of Sikafloor-266 CR (Project CV060813) in accordance with United States Environmental Protection Agency (USEPA)
Storage and Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.
Instructions for Use	
Mixing	Part A : part B = 80: 20 (by weight)
Mixing Time	<p>Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.</p> <p>When parts A and B have been mixed, add the quartz sand 0.1 - 0.3 mm and mix for a further 2 minutes until a uniform mix has been achieved.</p> <p>To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.</p> <p>Over mixing must be avoided to minimise air entrainment.</p>
Mixing Tools	Sikafloor [®] -266 CR must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
Cleaning of Tools	Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.
Application Method / Tools	<p>Prior to application, confirm substrate moisture content, r.h. and dew point. If > 4% pbw moisture content, Sikafloor[®] EpoCem[®] may be applied as a T.M.B. (temporary moisture barrier) system.</p> <p><i>Roller coating:</i> Sikafloor[®]-266 CR as coating can be applied by short-piled roller (crosswise).</p> <p><i>Textured coating:</i> Sikafloor[®]-266 CR is applied with a serrated trowel and then back-rolled (crosswise) with a textured roller.</p> <p><i>Wearing course smooth:</i> Sikafloor[®]-266 CR is poured, spread evenly by means of a serrated trowel. After spreading the material evenly, turn the serrated trowel and smooth the surface in order to achieve an aesthetically higher grade of finish.</p> <p>Roll immediately (within max. 10 minutes of application) in two directions with a spiked roller to ensure even thickness and to remove entrapped air. To obtain the highest level of aesthetic finish, spike roll in two directions at a 90 degree angle, passing only once in each direction.</p>



Potlife

Temperatures	Time
+15°C	~ 45 minutes
+20°C	~ 30 minutes
+30°C	~ 15 minutes

Waiting Time/Overcoating

Before applying Sikafloor®-266 CR on Sikafloor®-156 allow:

Substrate temperature	Minimum	Maximum
+15°C	24 hours	4 days
+20°C	8 hours	2 days
+30°C	5 hours	1 day

Before applying Sikafloor®-266 CR on Sikafloor®-266 CR allow:

Substrate temperature	Minimum	Maximum
+15°C	24 hours	4 days
+20°C	12 hours	2 days
+30°C	6 hours	24 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Notes on Application / Limitations

This product may only be used by experienced professionals.

Do not apply Sikafloor®-266 CR on substrates with rising moisture

Do not blind the primer.

Freshly applied Sikafloor®-266 CR must be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on the surface with the primer.

Technical and Physical Data

Chemical Base	Epoxy		
Density	Part A: ~ 1.60 kg/l Part B: ~ 1.02 kg/l Mixed resin: ~ 1.45 kg/l Filled resin 1 : 0.4 : ~ 1.66 kg/l	(DIN EN ISO 2811-1)	
	All Density values at +23°C		
Solid Content	~ 100% (by volume) / ~ 100 % (by weight)		
Mechanical / Physical Properties			
Compressive Strength	Resin: ~ 80 N/mm ² (28 days / +23°C)	(EN 13892-2)	
Flexural Strength	Resin: ~ 39 N/mm ² (28 days / +23°C)	(EN 13892-2)	
Bond Strength	> 1.5 N/mm ² (failure in concrete)	(ISO 4624)	
Shore D Hardness	84 (14 days / +23°C)	(DIN 53 505)	
Abrasion Resistance	45 mg (CS 10/1000/1000) (14 days / +23°C)	(DIN 53 109 (Taber Abrader Test))	



Resistance**Chemical Resistance** Resistant to many chemicals. Please ask for a detailed chemical resistance table.**Thermal Resistance**

Exposure*	Dry heat
Permanent	+50°C
Short-term max. 7 d	+80°C
Short-term max. 16 h	+100°C

Short-term moist/wet heat* up to +80°C where exposure is only occasional (i.e. during steam cleaning etc.)

*No simultaneous chemical and mechanical exposure.

System Information**System Structure***Roller coating:*

Primer: 1 x Sikafloor®-156
Coating: 2 x Sikafloor®-266 CR

Textured coating:

Primer: 1 x Sikafloor®-156
1st layer: 1 x Sikafloor®-266 CR
2nd layer: 1 x Sikafloor®-266 CR mixed with Thickener T

The 2nd layer of Sikafloor®-266 CR can be mixed with additional aggregate in order to improve slip resistance, but particle emissions could increase.

Self-smoothing system:

Primer: 1 x Sikafloor®-156
Wearing course: 1 x Sikafloor®-266 CR, filled with quartz sand 0.1 - 0.3 mm (Sikadur® 508)

Appearance / Colours

Resin - part A: coloured, liquid
Hardener - part B: transparent, liquid.

Packaging

Part A substrate: 13.03 kg
Pigment Pack: 2 x 1.15 kg
Part B: 3.83 kg
Part A+B: 19.16 kg

Application Details**Consumption / Dosage**

Coating System	Product	Consumption
Primer	Sikafloor®-156	0.3 - 0.5 kg/m ²
Roller coating	2 x Sikafloor®-266 CR	0.4 - 0.6 kg/m ² for each layer
Textured coating	1 st layer Sikafloor®-266 CR	0.4 - 0.6 kg/m ²
	2 nd layer Sikafloor®-266 CR + Thickener T	0.7 - 0.8 kg/m ² 1.5 - 2% (by weight)
Self-smoothing wearing course (Film thickness ~ 1.5 mm)	Sikafloor®-266 CR filled with quartz sand 0.1 - 0.3 mm (Sikadur® 508)	Maximum 2.5 kg/m ² Binder + quartz sand 15 - 20°C: 1 : 0.3 pbw (1.9 + 0.6 kg/m ²) 20 - 30°C: 1 : 0.4 pbw (1.8 + 0.7 kg/m ²)

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



Substrate Quality	<p>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.</p> <p>The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.</p> <p>If in doubt apply a test area first.</p>																		
Substrate Preparation	<p>Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.</p> <p>Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.</p> <p>Repairs to the substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor[®], SikaDur[®] and SikaGard[®] range of materials.</p> <p>The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.</p> <p>High spots must be removed by e.g. grinding.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p>																		
Application Conditions / Limitations																			
Substrate Temperature	+15°C min. / +30°C max.																		
Ambient Temperature	+15°C min. / +30°C max.																		
Substrate Humidity	≤ 4% pbw moisture content.																		
Relative Air Humidity	80% r.h. max.																		
Dew Point	<p>Beware of condensation.</p> <p>The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.</p>																		
Curing Details																			
Applied Product ready for use	<table border="1"> <thead> <tr> <th>Temperature</th> <th>Foot traffic</th> <th>Light traffic</th> <th>Full cure</th> </tr> </thead> <tbody> <tr> <td>+15°C</td> <td>~ 48 hours</td> <td>~ 6 days</td> <td>~ 10 days</td> </tr> <tr> <td>+20°C</td> <td>~ 36 hours</td> <td>~ 4 days</td> <td>~ 7 days</td> </tr> <tr> <td>+30°C</td> <td>~ 24 hours</td> <td>~ 2 days</td> <td>~ 5 days</td> </tr> </tbody> </table> <p>Note: Times are approximate and will be affected by changing ambient conditions.</p>			Temperature	Foot traffic	Light traffic	Full cure	+15°C	~ 48 hours	~ 6 days	~ 10 days	+20°C	~ 36 hours	~ 4 days	~ 7 days	+30°C	~ 24 hours	~ 2 days	~ 5 days
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Cleaning / Maintenance																			
Methods	<p>To maintain the appearance of the floor after application, Sikafloor[®]-266 CR 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.</p>																		



Value Base

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

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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 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 to our current 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.

