

Sikafloor®-2530 W

2-part water based epoxy coating

Product Description Sikafloor®-2530 W is a two part, water dispersed, solvent free, coloured, epoxy resin based coating.

Uses

- n Coloured epoxy coating for concrete, cement screeds, broadcast systems and epoxy mortars
- n Can be subjected to normal up to medium heavy mechanical and chemical loading
- n For production areas, warehouses, car park decks, garages, etc.

Characteristics / Advantages

- n Good chemical and mechanical resistance
- n Water vapour permeable
- n Solvent free
- n Water dilutable
- n Odourless
- n Easy application

Tests

Approval / Standards

Conforms to the requirements for physiological harmlessness according to the 47th notification of the Federal Health Office, Report No. P 1777-1, Polymer Institute, Germany.

Conforms to the requirements for decontamination ability (BS 4247, IRAS Ltd., St. Hellens, UK and to DIN 25 415-1 Report No. 35156, Forschungszentrum Jülich, Germany.

Conforms to the requirements of DIN 4101-1/14 for Class B1 (combustibility classification for floorings), Report-No. 16-904136000a, FMPA Stuttgart, Germany, March 2004.

Product Data

Form

Appearance / Colours

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

Available in various colour shades.

With light colour shades (e.g. yellow or orange) it may be necessary to apply several coats of Sikafloor®-2530 W to achieve full opacity (hiding power).

Under direct sun radiation there may be some discolouration and colour deviation, this has no influence on the function and performance of the coating.



Packaging	Part A: 4.2 kg and 12.6 kg containers Part B: 1.8 kg and 5.4 kg containers Part A+B: 6.0 kg and 18 kg ready to mix units								
Storage									
Storage Conditions/ 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. Protect from frost.								
Technical Data									
Chemical Base	Epoxy, waterborne								
Density	Part A: 1.28 kg/l (DIN EN ISO 2811-1) Part B: 1.09 kg/l Mixed Resin: 1.22 kg/l All Density values at +23°C								
Solid Content	~ 43% (by volume) / ~ 55% (by weight)								
Mechanical / Physical Properties									
Abrasion Resistance	54 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	<table border="1"> <tr> <td>Exposure*</td> <td>Dry heat</td> </tr> <tr> <td>Permanent</td> <td>+50°C</td> </tr> <tr> <td>Short-term max. 7 d</td> <td>+80°C</td> </tr> <tr> <td>Short-term max. 8 h</td> <td>+100°C</td> </tr> </table> <p>Short-term moist/wet heat* up to +80°C where exposure is only occasional (i.e. during steam cleaning etc.)</p> <p>*No simultaneous chemical and mechanical exposure.</p>	Exposure*	Dry heat	Permanent	+50°C	Short-term max. 7 d	+80°C	Short-term max. 8 h	+100°C
Exposure*	Dry heat								
Permanent	+50°C								
Short-term max. 7 d	+80°C								
Short-term max. 8 h	+100°C								
System Information									
System Structure	<p><i>Coating system:</i></p> <p>Primer: 1 x Sikafloor®-156 + 10 wt.-% Thinner C (non absorbent surfaces) 1 x Sikafloor®-2530 W + 5 wt.-% water (normal absorbent surfaces) 1 x Sikafloor®-156 (strongly absorbent surfaces)</p> <p>Seal coat smooth: 1 - 2 x Sikafloor®-2530 W Seal coat textured: 1 - 2 x Sikafloor®-2530 W + 2 wt.-% Extender T</p> <p><i>Seal coat for broadcast systems:</i> 2 x Sikafloor®-2530 W</p> <p>Note: For heavier exposure use Sikafloor®-156 for priming and a two-layer coating with Sikafloor®-2530 W.</p>								

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Primer	Sikafloor®-156 + 10 wt.-% Thinner C or Sikafloor®-156 or Sikafloor®-2530 W+5% water	0.3 - 0.5 kg/m ² 0.3 - 0.5 kg/m ² 0.2 - 0.3 kg/m ²
Seal coat smooth	1 - 2 x Sikafloor®-2530 W	0.2 - 0.3 kg/m ² /layer
Seal coat textured	1 - 2 x Sikafloor®-2530 W + 2% Extender T	0.2 - 0.3 kg/m ² /layer
Seal coat for broadcast systems	2 x Sikafloor®-2530 W	0.4 - 0.6 kg/m ²

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

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 dirt, oil, grease, coatings and surface treatments, etc..

If in doubt apply a test area first.

Substrate Preparation

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 blowholes and voids must be fully exposed.

Repairs to the substrate, filling of blowholes/voids and surface levelling must 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 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.

Application Conditions / Limitations

Substrate Temperature +10°C min. / +30°C max.

Ambient Temperature +10°C min. / +30°C max.

Substrate Moisture Content ≤ 6% pbw moisture content.

Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.

No rising moisture according to ASTM (Polyethylene-sheet).

Relative Air Humidity 75% r.h. max., adequate fresh air ventilation must be provided to remove excess moisture during curing.

Dew Point Beware of condensation!

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.

Application Instructions

Mixing	Part A : part B = 70 : 30 (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>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®-2530 W must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

Application Method / Tools	<p>Prior to application, confirm substrate moisture content, r.h. and dew point.</p> <p>If > 6% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.</p> <p><i>Primer:</i> Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. When used as a primer always apply by brush.</p> <p><i>Seal coat:</i> Sikafloor®-2530 W is spread evenly by means of a short pile roller.</p> <p>A seamless finish can be achieved if a “wet” edge is maintained during application.</p> <p>Sikafloor®-2530 W can also be applied by airless spray (spray pressure ~ 300 bar, nozzles with a diameter of 0.53 mm / 0.021 inch and a spray angle 60°).</p> <p>Uneven application of the material and resulting differences in the coating layer thicknesses may cause differences in “gloss” of the surface.</p>
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Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.
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Potlife

Temperature	Time
+10°C	~ 150 minutes
+20°C	~ 120 minutes
+30°C	~ 60 minutes

Waiting Time / Overcoating

Before applying Sikafloor®-2530 W on Sikafloor®-156 allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	4 days
+20°C	12 hours	2 days
+30°C	6 hours	1 day

Before applying Sikafloor®-2530 W on Sikafloor®-2530 W allow:

Substrate temperature	Minimum	Maximum
+10°C	48 hours	7 days
+20°C	20 hours	5 days
+30°C	10 hours	3 days

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

When relative air humidity is $\geq 75\%$ the waiting time is increased by at least 24 hours.

Notes on Application / Limitations

Do not apply Sikafloor®-2530 W on substrates with rising moisture.

Freshly applied Sikafloor®-2530 W should be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on surface with the primer.

Always ensure adequate fresh air ventilation when using Sikafloor®-2530 W in confined spaces to avoid curing problems.

The "gloss" of the finish can vary with temperature and the absorbency of the substrate.

Tools

Recommended Supplier of Tools:

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

For exact colour matching, ensure the Sikafloor®-2530 W in each area is applied from the same control batch numbers.

For spray application the use of protective health & safety equipment is mandatory!

Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

Curing Details

Applied Product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 48 hours	~ 5 days	~ 10 days
+20°C	~ 20 hours	~ 3 days	~ 7 days
+30°C	~ 10 hours	~ 2 days	~ 5 days

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

Cleaning / Maintenance

Methods

To maintain the appearance of the floor after application, Sikafloor®-2530 W 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.

Value Base

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.

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should 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 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.

CE Labelling

The harmonized European Standard EN 13 813 „Screed material and floor screeds - Screed materials - Properties and requirements“ specifies requirements for screed materials for use in floor construction internally.

Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.

Resin floor systems as well as cementitious screeds fall under this specification. They have to be CE-labelled as per Annex ZA. 3, Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

CE	
Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart	
04 ¹⁾	
EN 13813 SR-B1,5	
Primer/sealer (systems as per Product Data Sheet)	
Reaction to fire:	NPD _i ³⁾
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD
Abrasion Resistance:	NPD
Bond strength:	B 1,5
Impact Resistance:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

¹⁾ Last two digits of the year in which the marking was affixed.

²⁾ In Germany, DIN 4102 still applies. Passed class B2.

³⁾ No performance determined.

⁴⁾ Not broadcast with sand.

EU Regulation 2004/42

VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type **wb**) is 140 / 140 g/l (Limits 2007 / 2010) for the ready to use product.

The maximum content of **Sikafloor®-2530 W** is < 140 g/l VOC for the ready to use product.



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