### Sikafloor®-2530 W

### 2-part water based epoxy coating

Germany.

March 2004.

Product Description	Sikafloor $^{\!0}\!\!$ -2530 W is a two part, water dispersed, solvent free, coloured, epoxy resin based coating.		
Uses	<ul> <li>Coloured epoxy coating for concrete, cement screeds, broadcast systems and epoxy mortars</li> </ul>		
	<ul> <li>Can be subjected to normal up to medium heavy mechanical and chemical loading</li> </ul>		
	For production areas, warehouses, car park decks, garages, etc.		
Characteristics / Advantages	<ul> <li>Good chemical and mechanical resistance</li> <li>Water vapour permeable</li> <li>Solvent free</li> <li>Water dilutable</li> </ul>		
	<ul><li>Odourless</li><li>Easy application</li></ul>		
Tests			
Approval / Standards	Conforms to the requirements for physiological harmlessness according to the 47 <sup>th</sup> 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,

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

### **Product Data**

### **Form**

Appearance / Colours	Resin - part A: Hardener - part B:	coloured, liquid transparent, liquid
	Available in various co	olour shades.
		es (e.g. yellow or orange) it may be necessary to apply several 30 W to achieve full opacity (hiding power).
		tion there may be some discolouration and colour deviation, on the function and performance of the coating.



Packaging	Part A: Part B: Part A+B:	1.8 kg and	d 12.6 kg containers d 5.4 kg containers d 18 kg ready to mi:		
Storage					
Storage Conditions/ Shelf-Life		d sealed pa	ckaging, in dry con		rly in original, unopened and t temperatures between +5℃ and
Technical Data					
Chemical Base	Epoxy, wat	erborne			
Density	Part A: Part B: Mixed Resi	1.28 1.09 n: 1.22	kg/l		(DIN EN ISO 2811-1)
	All Density	values at +	23℃		
Solid Content	~ 43% (by	~ 43% (by volume) / ~ 55% (by weight)			
Mechanical / Physical Properties					
Abrasion Resistance	54 mg (CS	10/1000/10	000) (14 days / +	-23℃)	(DIN 53 109 (Taber Abrader Test))
Resistance					
Chemical Resistance	Resistant to	many che	micals. Please ask	for a det	tailed chemical resistance table.
Thermal Resistance					
	Exposure*				Dry heat
	Permanent Short-term max. 7 d			+50℃	
				+80℃	
	Short-term n	nax. 8 h			+100℃
	Short-term (i.e. during	moist/wet h steam clea	neat* up to +80℃ w .ning etc.)	vhere exp	oosure is only occasional
	*No simultar	eous chemic	cal and mechanical ex	kposure.	
System Information					
System Structure	Coating sys Primer:	stem:	1 x Sikafloor <sup>®</sup> -156 + 10 wt% Thinner C (non absorbent surfaces) 1 x Sikafloor <sup>®</sup> -2530 W + 5 wt% water (normal absorbent surfaces)		) 5 wt% water ces)
	Seal coat s Seal coat to		1 x Sikafloor <sup>®</sup> -156 (strongly absorbent surfaces) 1 - 2 x Sikafloor <sup>®</sup> -2530 W 1 - 2 x Sikafloor <sup>®</sup> -2530 W + 2 wt% Extender T		
	Seal <i>coat fo</i> 2 x Sikafloo	or broadcas or®-2530 W	st systems:		
	Note: For heavier exposure use Sikafloor $^{8}$ -156 for priming and a two-layer coating with Sikafloor $^{8}$ -2530 W.				

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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/m² 0.3 - 0.5 kg/m² 0.2 - 0.3 kg/m²			
	Seal coat smooth	1 - 2 x Sikafloor®-2530 W	0.2 - 0.3 kg/m²/layer			
	Seal coat textured	1 - 2 x Sikafloor®-2530 W + 2% Extender T	0.2 - 0.3 kg/m²/layer			
	Seal coat for broadcast systems	2 x Sikafloor®-2530 W	0.4 - 0.6 kg/m²			
		al and do not allow for any ad ofile, variations in level and w				
Substrate Quality	The concrete substrate mu (minimum 25 N/mm²) with	st be sound and of sufficient a minimum pull off strength o	compressive strength f 1.5 N/mm <sup>2</sup> .			
	The substrate must be clear grease, coatings and surface	an, dry and free of all contamice treatments, etc.	nants such as dirt, oil,			
	If in doubt apply a test area	a 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 <sup>®</sup> , Sikadur <sup>®</sup> and Sikagard <sup>®</sup> range of materials.					
	The concrete or screed sub an even surface.					
	High spots must be remove	ed 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℃ min. / +30℃ max.					
Ambient Temperature	+10 ℃ min. / +30 ℃ max.					
Substrate Moisture	≤ 6% pbw moisture content	t.				
Content	Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.					
	No rising moisture according	ng to ASTM (Polyethylene-sh	eet).			
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!					
		floor must be at least 3 °C at blooming on the floor finish.	pove dew point to reduce			

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Part A: part B = 70: 30 (by weight)			
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.			
To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.			
Over mixing must be avoided to minimise air entrainment.			
Sikafloor®-2530 W must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.			
Prior to application, confirm substrate moisture content, r.h. and dew point.			
If > 6% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.			
Primer:  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.			
Seal coat: Sikafloor®-2530 W is spread evenly by means of a short pile roller.			
A seamless finish can be achieved if a "wet" edge is maintained during application.			
Sikafloor $^{8}$ -2530 W can also be applied by airless spray (spray pressure $\sim$ 300 bar, nozzles with a diameter of 0.53 mm / 0.021 inch and a spray angle 60°).			
Uneven application of the material and resulting differences in the coating layer thicknesses may cause differences in "gloss" of the surface.			
Clean all tools and application equipment with water immediately after use.  Hardened and/or cured material can only be removed mechanically.			
Temperature	Time		
+10℃	~ 150 minutes		
+20℃	~ 120 minutes		
+30 ℃	~ 60 minutes		
	Prior to mixing, stir part A mechanically. VA, mix continuously for 2 minutes until a unit achieve a consistent mix.  Over mixing must be avoided to minimise Sikafloor®-2530 W must be thoroughly mitimary and the application, confirm substrate moit of the power moisture content, Sikafloor® (temporary moisture barrier) system.  Primer:  Make sure that a continuous, pore free comply two priming coats. When used as a seal coat:  Sikafloor®-2530 W is spread evenly by mean A seamless finish can be achieved if a "with Sikafloor®-2530 W can also be applied by nozzles with a diameter of 0.53 mm / 0.02 Uneven application of the material and restrictions with a diameter of 0.53 mm / 0.02 Uneven application of the material and restrictions and application equipment Hardened and/or cured material can only the start of the complete the start of the complete the com		

# Waiting Time / Overcoating

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

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

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

Substrate temperature	Minimum	Maximum
+10℃	48 hours	7 days
+20℃	20 hours	5 days
+30℃	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.

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### Notes on Application / Limitations

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

Freshly applied Sikafloor<sup>®</sup>-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<sup>®</sup>-2530 W in confined spaces to avoid curing problems.

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

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 CO<sub>2</sub> and H<sub>2</sub>O 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℃	~ 20 hours	~ 3 days	~ 7 days
+30℃	~ 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<sup>®</sup>-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.

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Construction

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):



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#### EN 13813 SR-B1,5

Primer/sealer

(systems as per Product Data Sheet)

Reaction to fire:	
Release of corrosive substances	

(Synthetic Resin Screed):

Water permeability:

Abrasion Resistance:

Bond strength:

Impact Resistance:

Sound insulation: Sound absorption:

Thermal resistance:

Chemical resistance:

NPD NPD

NPD<sub>I</sub> 3)

SR

NPD

**NPD** 

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**NPD** 

NPD

**NPD** 

### 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**<sup>®</sup>**-2530 W** is < 140 g/l VOC for the ready to use product.



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ISO 14001 ISO 9001

<sup>1)</sup> Last two digits of the year in which the marking was affixed.

<sup>&</sup>lt;sup>2)</sup> In Germany, DIN 4102 still applies. Passed class B2.

<sup>&</sup>lt;sup>3)</sup> No performance determined.

<sup>4)</sup> Not broadcast with sand.