Product Data Sheet

Edition 08/08/2008 Identification no: 02 08 01 02 006 0 000003 Sikafloor®-155 WN

(Template for local translation, only for internal use)

Sikafloor®-155 WN

Two part water dispersed epoxy resin primer

Product	Solvent-free, water dispersed two part primer based on epoxy resin.	
Description Uses	As a primer and adhesion promoter on properly prepared: New concrete Cementitious screeds Hardened concrete Existing epoxy floor coatings	
	 EpoCem levelling layers As a primer for: Sikafloor[®]-81 EpoCem[®] and Sikafloor[®]-82 EpoCem[®] Sikafloor[®] -20N PurCem[®] and Sikafloor[®] -21N PurCem[®] if required. Sikafloor[®] -Level[®] -25 	
Characteristics / Advantages	 Easy and fast to apply Especially suitable for highly absorbent substrates Water dispersed and odourless Can be applied in unventilated areas Longer pot life than SF -155 W Very good bond strength over its whole application temperature range Environmentally friendly 	
Tests		
Approval / Standards	All values indicated below are internal test results according to DIN 52615 and EN 13892-8. Conforms to the requirements of EN - 13813 SR - B 1.5	
Product Data		
Form		
Appearance / Colours	Part A: Part B:	thick coloured paste light yellow translucent emulsion
	Mixed resin :	Oxide red (~ RAL 3009)
Packaging	Part A: Part B:	7.5 kg or 22.5 kg metal drum 2.5 kg or 7.5 kg plastic jerrycan
	Part A+B :	10 kg ready to mix units 30 kg ready to mix units



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Storage			
Storage Conditions/ Shelf-Life	12 months from date of production if stored properly in original, unopened and undamaged, sealed containers, in dry conditions, at temperatures between $+5^{\circ}$ C and $+25^{\circ}$ C. Protect from frost.		
Technical Data			
Chemical Base	Water dispersed epoxy		
Density	Part A: ~ 1.6 kg/l (at +20°C) Part B: ~ 1.1 kg/l "		
	Mixed resin: ~ 1.4 kg/l "		
Solid Content	~ 56% (by volume) / ~ 70% (by weight)		
Viscosity	4900 mPa.s (+20°C) Contraves (RM 180 Rheomat)		
Layer Thickness	D.F.T.: ~ 110 - 180 μm per coat		
Water Vapour Diffusion Coefficient (μH ₂ O)	$\mu H_20 \approx 2763$ (DIN 52615) Equivalent air layer thickness for 1 mm thickness: Sd ≈ 0.27 m		
Mechanical / Physical Properties			
Bond Strength	After 28 days at +23°C / 50% r.h. (EN 13892-8)		
	Hardened concrete		
	C35 Concrete according to UNE-EN 1766 > 1.5 N/mm² concrete failure		
	(1.5 N/mm² is the minimum pull off strength of the recommended concrete substrate)		
System Information			
System Structure	1 - 2 coats (dependent on substrate porosity)		
Application Details			
Consumption / Dosage	0.3 - 0.5 kg/m ² / coat. (2 - 3.3 m ² / kg / coat).		
Consumption, Doodge	Sikafloor®-155 WN, diluted with water 10% by weight for the first coat. Undiluted for the second coat.		
	This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variation in level or 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 can be damp but must be free of standing water (no puddles!) and be free of all contaminants such as oils, grease, coatings and surface treatments etc.		
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 blow holes 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.		
	High spots can be removed by 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.		

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Application Conditions / Limitations		
Substrate Temperature	+10°C min. / +35°C max.	
Ambient Temperature	+10°C min. / +35°C max.	
Substrate Humidity	Test method: Sika [®] -Tramex meter, CM - measurement or Oven-dry-method. Always confirm substrate moisture content prior to the application of the primer. < 4% for impervious resin finishes. No rising moisture according to ASTM D 4263 test (Polyethylene sheet). < 6% for Sikafloor [®] EpoCem [®] range, Sikafloor [®] PurCem [®] range and for Sikafloor [®] -Level [®] -25 (with vapour permeable finish) or other products in the Sikafloor [®] -Level [®] range. Can be applied on matt - damp green concrete when overcoating with the Sikafloor [®] EpoCem [®] range.	
Relative Air Humidity	85% r.h. max.	
Dew Point	Beware of condensation!	
	The substrate and uncured floor must be a risk of condensation or blooming on the su	
Application Instructions		
Mixing	Part A : B = 3 : 1 by weight	
Mixing Time	Prior to mixing, thoroughly stir part A (resin) well, then add all of part B (hardener) and mix both liquid parts thoroughly for one minute until a uniform mix has been achieved. When parts A and B have been mixed for one minute for the first coat, slowly add 10% of clean water while mixing continues for a further two minutes, until a fully homogenous mix has been achieved. For the second coat, do not add additional water, but continue the mixing for a total of 3 minutes until a fully homogenous mix has been achieved. To ensure thorough mixing of both coats, after the minimum 3 minutes mixing, pour the mixed material into another container carefully scraping the sides and mixing paddle with a spatula and then mix again briefly to ensure complete and thorough mixing.	
	Excessive mixing must also be avoided to	minimise air entrainment.
Mixing Tools	Low speed electric stirrer(~ 300 - 400 rpm)	
Application Method / Tools	Apply Sikafloor®-155 WN by suitable brush, roller or trowel and overwork with a roller.	
	Caution: The end of the product's potlife is not noticeable! Keep within the limitations mentioned below. Discard material not used within these times.	
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.	
Potlife		
	Temperature	Time
	+10°C	~ 180 minutes
	+20°C	~ 90 minutes
	+30°C	~ 45 minutes
	Caution: expiry of potlife without visible cha	
		arigo. (Above values at 13/01.11.)

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Waiting Time / Overcoating

Before applying Sikafloor®-81 / -82 EpoCem® onto Sikafloor®-155 WN allow:

Substrate temperature	Waiting time	
	Minimum	Maximum
+10°C	12 hours	72 hours
+20°C	6 hours	48 hours
+30°C	4 hours	24 hours

At low temperatures and / or high humidity curing time will increase. Apply subsequent coats only to tack free primer.

For use as a tack coat when priming for Sikafloor®-Level®-25 without blinding with quartz sand, allow:

Substrate temperature	Waiting time		
	Minimum	Maximum	
+10°C	5 hours	8 hours	
+20°C	2.5 hour	4 hours	
+30°C	1 hour	2 hours	

For use as a primer for the Sikafloor®-Level® or Sikafloor®-PurCem® range with full blinding with sand, allow :

Substrate temperature	Waiting time		
	Minimum	Maximum	
+10°C	24 hours	Not applicable	
+20°C	12 hours	Not applicable	
+30°C	6 hours	Not applicable	

Notes on Application / Limitations

At low temperatures and/or high humidity, the curing time will increase.

Protect application from rain / water while reaction and curing takes place.

Dilution of the first coat with 10% of water by weight helps improve bond on dense and only slightly absorbent substrates, as well as reducing the consumption of material on excessively porous substrates. When applying a second coat, always use it undiluted.

Make sure to monitor and control the pot life of the mix as the end of pot life is not visibly noticeable. Discard any material at the pot life limits indicated for the existing application conditions!

Curing Details

Applied Product ready for use

See the Overcoating table above.

Substrate temperature	Foot traffic
+10°C	~ 12 hours
+20°C	~ 6 hours
+30°C	~ 4 hours

No specific additional curing measures are required.

All times are approximate and will be affected by changing ambient and substrate conditions

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.

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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.

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 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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Note

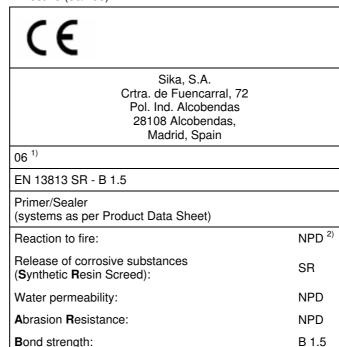
The following chapter is only mandatory for European countries.

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, Tables ZA. 1.1 or 1.5 and Z.A. 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):



Impact Resistance:

Sound insulation:

Sound absorption:

Thermal resistance:

Chemical resistance:

Please fill in your relevant producer address

EU Regulation VOC - Decopaint Directive

According EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / Cat. J / Type wb) is, ready for use, 140 / 140 g/l (limit 2007/2010). The max. content of Sikafloor®-155 W N, ready for use, is <140 g/l VOC.

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Sika Services AG Tüffenwies 16 CH-8048 Zurich Switzerland

+41 44 436 40 40 Phone +41 44 436 46 86 Telefax wwww.sika.com





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

²⁾ No performance determined