Product Data Sheet Edition 09/05/20164 Identification no: 02 08 01 02 006 0 000003 Sikafloor®-155 WN

Sikafloor®-155 WN

Two part water dispersed epoxy resin primer

Product Description	Solvent-free, water dispersed two part primer based on epoxy resin.	
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.	
Characteristics / Advantages	 Products in the Sikafloor® -Level® product range 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 	
Test		
Approval / Standards		water dispersed epoxy resin primer according to EN 13813:2002, 8 01 02 006 0 000003 10532017.
Product Data		
Form		
Appearance / Colours	Part A: Part B:	thick coloured paste light yellow translucent emulsion
Bartanta.	Mixed resin :	
Packaging	Part A: Part B:	5.25 kg metal Container (3.30 Ltr) 1.75 kg metal container (1.70 Ltr) 7.00kg or 5 litro ready to mix units
	Part A+B:	7.00kg or 5 litre ready to mix units



Technical Data Chemical Base Water dispersed epoxy Part A: ~ 1.6 kg/l (at +20°C) Part B: ~ 1.1 kg/l " Solid Content - 56% (by volume) / ~ 70% (by weight) Viscosity 4900 mPa.s (+20°C) Contraves (RM 180 Rheor Layer Thickness D.F.T.: ~ 110 · 180 µm per coat Water Vapour Diffusion PH₂0 ≈ 2763 Coefficient (µH₂0) Mechanical / Physical Properties Bond Strength After 28 days at +23°C / 50% r.h. EN 1389: 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 0.2 - 0.4 Ltt/m² / coat. (2.5 - 5 m² / Ltr / coat). Sikafloo/²-155 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 puddlest) and free of all contaminants such as oils, grease, coatings and surface treatments etc. Substrate Preparation Concrete substrates must be prepared mechanically using aprasive blast cleanir or scarifying equipment to remove cement laitance and achieve an open textures surface. Weak concrete must be removed and surface defects such as blow holes and verified out using appropriate products from the Sikafloor³. SikaDur³ and Sikagar range of materials. High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces.				
Internation Spatial Containers, in dry conditions, at temperatures between +5°C and +25°C. Protect from frost.	Storage			
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		High spots can be removed by grinding.		
before application of the product, preferably by brush and/or vacuum.				

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Sikafloor®-155 WN

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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 4	263 test (Polyethylene sheet).	
	< 6% for Sikafloor® EpoCem® range, Sikaf Sikafloor®-Level® -50 (with vapour permeat Sikafloor®-Level® range.	loor [®] PurCem [®] range and for ble finish) or other products in the	
	Can be applied on matt - damp green cond Sikafloor [®] EpoCem [®] range.	crete when over coating with the	
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, a the mixed material into another container of paddle with a spatula and then mix again be mixing.	carefully scraping the sides and 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 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	ange. (Above values at 75% r.h.)	

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Sikafloor[®]-155 WN

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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.

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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.

Sikafloor[®]-155 WN

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.

EU Regulation 2004/42 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 g/l (limit 2010). The max. content of Sikafloor $^{\! B}$ -155 W N, ready for use, is <140 g/l VOC.



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