

PRODUCT DATA SHEET

Sikafloor®-154 W

EPOXY WATER BASED RESIN FLOOR PRIMER

DESCRIPTION

Sikafloor®-154 W is a 2-part epoxy water based resin floor primer for cementitious floors. Internal and external use.

USES

Sikafloor®-154 W may only be used by experienced professionals.

- A primer for Sikafloor®-2100

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion on cementitious substrates
- Easy and quick to apply
- Short waiting times
- Low odour
- Can be diluted for different types of substrate absorbency
- Improves long term adhesion of subsequent coating

PRODUCT INFORMATION

Composition	Epoxy water based resin	
Packaging	Part A	20 kg container
	Part B	5 kg container
	Part A+B	25 kg ready to mix units
Appearance / Colour	Semi-gloss finish	
	Resin - Part A	Coloured liquid
	Hardener - Part B	Light yellow liquid
	Mixed Resin	Grey (~ RAL 7015)
Shelf Life	12 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.	
Density	Part A	~1.7 kg / l (DIN EN ISO 2811-1)
	Part B	~1.0 kg / l
	Part A+B	~1.5 kg / l
	All density values at 23 °C.	
Solid content by weight	~64 %	
Solid content by volume	~43 %	

TECHNICAL INFORMATION

Abrasion Resistance	~72 mg (8 days / 23 °C) Taber abrasion tester (CS10 / 1000 / 1000)	(DIN 53109)
Tensile Adhesion Strength	> 1.5 N/mm ² after 28 days at +23 °C / 50 % R.H	(EN 13892-8)

SYSTEM INFORMATION

Systems	Refer to the system data sheet Sikafloor® MultiCoat AB-10
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APPLICATION INFORMATION

Mixing Ratio	Part A : B = 80 : 20 by weight		
Consumption	~0.8–1.0 kg/m ² /coat. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. For detailed information, refer to the system data sheet Sikafloor® Multi-Coat AB-10		
Ambient Air Temperature	+10 °C min. / +30 °C max.		
Relative Air Humidity	80 % max		
Dew Point	Beware of condensation The substrate and uncured floor temperature must be at least 3 °C above the dew point to reduce the risk of condensation or blooming on the floor finish.		
Substrate Temperature	+10 °C min. / +30 °C max.		
Substrate Moisture Content	≤ 4 % parts by weight Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	Temperature	Time	
	+10 °C	~90 minutes	
	+20 °C	~60 minutes	
	+30 °C	~30 minutes	
Applied Product Ready for Use	Temperature	Foot Traffic	Full Cured
	+10 °C	~12 hours	~10 days
	+20 °C	~5 hours	~7 days
	+30 °C	~3 hours	~5 days
Note: Times are approximate and will be affected by changing ambient conditions.			

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Cementitious substrates (concrete / screed) must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm².

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and

achieve an open textured gripping surface profile suitable for the product thickness.

High spots can be removed by grinding.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-154 W. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum cleaning equipment.

MIXING

Prior to mixing all parts, mix part A (resin) using a low speed single paddle electric stirrer (300–400 rpm) to mix liquid and all the coloured pigment until a uniform colour has been achieved.

Undiluted

Add part B (hardener) to part A and mix part A + B continuously for 3.0 minutes until a uniformly coloured mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a smooth consistent mix. Over mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = 3.0 minutes

Diluted

Add part B (hardener) to part A and mix part A + B continuously for 1.0 minute, slowly add 10 % of clean water while continuing to mix for a further 2.0 minutes until a uniformly coloured mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a smooth consistent mix. Over mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing. Mix full units only. Mixing time for A+B + Water = 3.0 minutes

APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point.

Dense and slightly absorbent substrates

Pour mixed diluted primer onto the prepared substrate and apply by brush, roller or squeegee. Ensure a continuous, pore free coat covers the substrate.

Normal absorbent substrates

Pour mixed undiluted primer onto the prepared substrate and apply by brush, roller or squeegee. Ensure a continuous, pore free coat covers the substrate.

Porous substrates

Pour mixed diluted primer onto the prepared substrate and apply by brush, roller or squeegee. Ensure a continuous, pore free coat covers the substrate. When dry, Pour mixed undiluted primer onto the 1st priming coat. Ensure a continuous, pore free coat covers the substrate.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.

FURTHER INFORMATION

Substrate Quality & Preparation

Refer to Sika Method Statement: 'EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS'.

IMPORTANT CONSIDERATIONS

- After application product must be protected from damp, condensation and water contact (rain) while reaction and curing takes place.
- At low temperatures and/or high humidity, the curing time will increase.
- Make sure to monitor 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 taking into consideration the application conditions.

BASIS OF PRODUCT DATA

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.

ECOLOGY, HEALTH AND SAFETY

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

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / g type WB) is 30 g/l (Limits 2010) for the ready to use product. The maximum content of Sikafloor®-154 W is < 30 g/l VOC for the ready to use product.

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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