Product Data Sheet Edition 01/01/2014 Identification no: 02 08 01 02 002 0 000002 Sikafloor®-93 (EC) Primer

Sikafloor[®]-93 (EC) Primer

2-part epoxy primer

Product Description
Uses
Characteristics /
Advantages
Product Data
Form
Appearance / Colou
Packaging

Product Description	Sikafloor [®] -93 (EC) Primer is two part, solvent free, low viscosity epoxy resin.			
Uses	 For priming concrete substrates, cement screeds and epoxy mortars 			
	For normal to strong absorbent substrates			
	 Primer for the Sikafloor[®] flooring systems 			
Characteristics / Advantages	Low viscosity			
	Good penetration			
	Excellent bond strength			
	Solvent free			
	Easy application			
	Short waiting times			

Form			
Appearance / Colours	Resin - Part A: Hardener - Part B:	grey, liquid yellowish, liquid	
Packaging	Part A: Part B: Part A+B:	3.2 kg x 2 container 0.8 kg x 2 container 4.0 kg x 2 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 $+35$ °C.		
Technical Data			
Chemical Base	Ероху		
Density	Part A: Part B: Mixed Resin:	~ 1.65 kg/l ~ 1.03 kg/l ~ 1.45 kg/l	
	All density values at +27 °C		
Solid Content	~ 100% (by volume) / ~ 100% (by weight)		



Compressive Strength	~ 70 N/mm ² (14 days / +27 °	C)	(According to IS 9162-1979)		
Flexural Strength	$\sim 45 \text{ N/mm}^2$ (14 days / +27°	•			
Bond Strength	> 1.5 N/mm ² (failure in conc		(According to IS 9162-1979 (According to ISO 4624		
Dona Otterigin			(According to 100 4024)		
Resistance					
Thermal Resistance					
	Exposure*		Dry heat +50°C		
	Permanent				
	*No simultaneous chemical and med broadcast system with approx. 3 - 4	chanical exposure and only in com mm thickness	bination with Sikafloor [®] systems as a		
System Information					
System Structure	-	Primer: Low / medium porosity concrete: 1 x Sikafloor [®] -93 (EC) Primer High porosity concrete: 2 x Sikafloor [®] -93 (EC) Primer			
Application Details					
Consumption / Dosage	Coating System	Product	Consumption		
	Priming	Sikafloor [®] -93 (EC) Primer	0.25 - 0.4 kg/m²		
	Note: These figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.				
Substrate Quality	Concrete substrates must be sound and of sufficient compressive strength (minimum 20 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² .				
	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, scarifying or grinding 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	d by e.g. grinding.			
		ose and friable material must be completely removed from all surf plication of the product, preferably by brush and/or vacuum.			
Application Conditions / Limitations					
Substrate Temperature	+8℃ min. / +35℃ max.				
Ambient Temperature	+8 ℃ min. / +35 ℃ max.				
Substrate Moisture	< 4% moisture content.				
Content	Test method: Sika [®] -Tramex meter, CM - measurement or Oven-dry-method.				
	No rising moisture according to ASTM (Polyethylene-sheet).				
	No rising moisture according	g to ASTM (Polyethylene-sl	neet).		

Dew Point	Beware of condensation!				
	The substrate and uncured floor must be at least 3 °C above the dew point to reduce the risk of condensation or blooming on the floor finish.				
Application Instructions					
Mixing	Part A : Part B = 4 : 1 (by we	eight)			
Mixing Time	Prior to mixing, stir part A m A, mix continuously for 3 mi				
	When parts A and B have been mixed, add the quartz sand and if required the Extender T and mix for a further 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 avoide	Over mixing must be avoided to minimise air entrainment.			
Mixing Tools	Sikafloor [®] -93 (EC) Primer m stirrer (300 - 400 rpm) or oth			ng a low speed electric	
	For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used.				
Application Method /	Prior to application, confirm	substrate moi	sture content,	r.h. and dew point.	
Tools	If > 4% moisture content, Sikafloor [®] EpoCem [®] may be applied as a Temporary Moisture Barrier (TMB) system.				
	<i>Primer:</i> Make sure that a continuous, pore free coat covers the substrate. If nec apply two priming coats. Apply Sikafloor [®] -93 (EC) Primer by brush, rolle squeegee.				
Cleaning of Tools	Clean all tools and application equipment with Sika [®] Colma Cleaner or suitable thinner immediately after use. Hardened and/or cured material can only be removed mechanically.				
Potlife	2 kg mass				
	Temperature		Time		
	+10 <i>°</i> C		~ 50 minutes		
	+20 °C	+20℃		~ 25 minutes	
	+30 °C		~ 15 minutes		
Waiting Time /	Before applying solvent free products on Sikafloor [®] -93 (EC) Primer allow:				
Overcoating	Substrate temperature	Minimum		Maximum	
	+10°C	24 h	ours	4 days	
		12 hours			
	+20 °C	12 h	ours	2 days	
	+20 °C +30 °C	12 h 8 ho		2 days 24 hours	
	+30 °C	8 ho	ours	24 hours	
	+30 °C Before applying solvent con	8 ho	ours its on Sikafloo	24 hours	
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	+30 °C Before applying solvent con Substrate temperature +10 °C	8 ho taining produc Minin 24 h	ours ts on Sikafloor num ours ours	24 hours ®-93 (EC) Primer allow: Maximum 4 days	
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	+30 °C Before applying solvent com Substrate temperature +10 °C +20 °C +30 °C Times are approximate and	8 ho taining produc Minin 24 h 12 h 8 ho will be affecte I relative humin	ours mum ours ours ours d by changing dity.	24 hours [®] -93 (EC) Primer allow: <u>Maximum</u> 4 days 2 days 24 hours ambient conditions	
	+30 °C Before applying solvent com Substrate temperature +10 °C +20 °C +30 °C Times are approximate and particularly temperature and	8 ho taining produc Minin 24 h 12 h 8 ho will be affecte I relative humin EC) Primer or 3 (EC) Primer	burs ts on Sikafloon mum ours ours burs d by changing dity. n substrates wi should be pro	24 hours [®] -93 (EC) Primer allow: Maximum 4 days 2 days 24 hours ambient conditions th rising moisture.	
Notes on Application / Limitations	+30 ℃ Before applying solvent com Substrate temperature +10 ℃ +20 ℃ +30 ℃ Times are approximate and particularly temperature and Do not apply Sikafloor [®] -93 (Freshly applied Sikafloor [®] -9	8 ho taining produc Minin 24 h 12 h 8 ho will be affecte I relative humin EC) Primer or 3 (EC) Primer at least 24 ho	ours ts on Sikafloon mum ours ours ours d by changing dity. n substrates wi should be pro- urs.	24 hours [®] -93 (EC) Primer allow: Maximum 4 days 2 days 24 hours ambient conditions th rising moisture.	

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grain size distribution.

For external applications, apply on a falling temperature. If applied during rising temperatures "pin holing" may occur from rising air.

Floor cracks and joints require pre-treatment. Treat as follows:

- Static: prefill and level with Sikadur[®] or Sikafloor[®] epoxy resin
- Dynamic: to be assessed and if necessary apply a stripe coat of elastomeric material or design as a movement joint

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

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_2 and H_2O 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	~ 24 hours	~ 6 days	~ 10 days	
	+20 °C	~ 12 hours	~ 4 days	~ 7 days	
	+30 °C	~ 8 hours	~ 2 days	~ 5 days	
	Note: Times are approximate and will be effected by changing ambient 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.				
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.				



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