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Sikafloor®-93 (EC) Primer

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2-part epoxy primer

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

Product Data

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Appearance / Colours	Resin - Part A: Hardener - Part B:	grey, liquid yellowish, liquid
Packaging	Part A: Part B: Part A+B:	1.6 kg x 4 container 0.4 kg x 4 container 2.0 kg x 4 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
Olicii-Elie	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 volum	~ 100% (by volume) / ~ 100% (by weight)	



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Mechanical / Physical Properties				
Compressive Strength	~ 70 N/mm ² (14 days / +27°	C)	(According to IS 9162-1979)	
Flexural Strength	~ 45 N/mm ² (14 days / +27°	C)	(According to IS 9162-1979)	
Bond Strength	> 1.5 N/mm² (failure in conc	rete)	(According to ISO 4624)	
Resistance				
Thermal Resistance				
	Exposure*		Dry heat	
	Permanent		+50°C	
	*No simultaneous chemical and med broadcast system with approx. 3 - 4		n combination with Sikafloor [®] systems as a	
System Information				
System Structure	Primer: Low / medium porosity cond High porosity concrete:	rete: 1 x Sikafloor [®] - 2 x Sikafloor [®] -	93 (EC) Primer 93 (EC) Primer	
Application Details				
Consumption / Dosage	Coating System	Product	Consumption	
	Priming	Sikafloor [®] -93 (EC) Pri	mer 0.25 - 0.4 kg/m²	
			ow for any additional material ariations in level or wastage etc.	
Substrate Quality	Concrete substrates must be (minimum 20 N/mm²) with a			
	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 clear scarifying or grinding equipment to remove cement laitance and achieve an otextured 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.		
	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	+8°C min. / +35°C max.			
Ambient Temperature	+8°C min. / +35°C max.			
Substrate Moisture	< 4% moisture content.			
Content	Test method: $Sika^{\$}$ -Tramex meter, CM - measurement or Oven-dry-method.			
	No rising moisture according	g to ASTM (Polyethyle	ne-sheet).	

80% r.h. max.

Relative Air Humidity

Dew Point	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 mir				
	When parts A and B have be Extender T and mix for a fur				
	To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.				
	Over mixing must be avoide	d to minimise	air entrainme	nt.	
Mixing Tools	Sikafloor®-93 (EC) Primer m stirrer (300 - 400 rpm) or oth	nust be thorougher suitable eq	ghly mixed us uipment.	ing a low speed electric	
	For the preparation of morta trough type. Free fall mixers			r of rotating pan, paddle or	
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.				
	Primer: Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-93 (EC) Primer by brush, roller or 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°C		~ 50 minutes		
	+20°C		~ 25 minutes		
	+30°C	~ 15 min		~ 15 minutes	
Waiting Time /	Before applying solvent free products on Sikafloor®-93 (EC) Primer allow:				
Overcoating	Substrate temperature	Minii	mum	Maximum	
	+10°C	24 h	ours	4 days	
	+20°C	12 h	ours	2 days	
	+30°C	8 ho	ours	24 hours	
	Before applying solvent containing products on Sikafloor®-93 (EC) Primer allow:				
	Substrate temperature	Minii		Maximum	
	+10°C	24 h	ours	4 days	
	+20°C	12 hours		2 days	
	+30°C	8 hours		24 hours	
	Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.				
Notes on Application /	Do not apply Sikafloor®-93 (EC) Primer on substrates with rising moisture.				
Limitations	Freshly applied Sikafloor®-93 (EC) Primer should be protected from damp, condensation and water for at least 24 hours.				
Limitations					
Limitations		at least 24 ho	urs.		

Beware of condensation!

Dew Point

Construction

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 CO₂ and H₂O 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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