Sikafloor®-2420

Sikafloor®-2420

2-part epoxy impregnation and primer

Product Description	Sikafloor®-2420 is a two part, solvent containing, epoxy resin impregnation and primer.		
Uses	Primer for concrete and cementitious screeds		
	 Transparent seal coat for normal up to medium heavy wear Impregnation of concrete surfaces to protect from salt solutions / free thaw etc. 		
Characteristics /	Low viscosity		
Advantages	Good penetration abilities		
	 Also suitable also for less absorbent dense surfaces 		
	Easy application		
Product Data			
Form			
Appearance / Colours	Resin - part A: transparent, liquid Hardener - part B: transparent, liquid		
Packaging	Part A: 5 kg, 10 kg containers Part B: 5 kg, 10 kg containers Part A+B: 10 kg, 20 kg ready to mix units		
Storage			
Storage Conditions / Shelf-Life	36 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between $+5$ °C and $+30$ °C.		
Technical Data			
Chemical Base	Ероху		
Density	Part A: 0.95 kg/l Part B: 0.90 kg/l Mixed resin: 0.93 kg/l		
	All Density values at +23 ℃		
Solid Content	~ 27% (by volume) / ~ 30% (by weight)		
Resistance			
Chemical Resistance	The product is not intended for exposure to chemicals.		



Thermal Resistance

Exposure*	Dry heat
Permanent	+50℃
Short-term max. 7 d	+80℃
Short-term max. 12 h	+100℃

Short-term moist/wet heat* up to +80 °C where exposure is only occasional (i.e. during steam cleaning etc.)

System Information

System Structure

Primer for Sikafloor[®] coatings: 1 - 2* x Sikafloor[®]-2420 +10 - 50 wt.-% Thinner C

Impregnation of concrete surfaces:

Min. 2* x Sikafloor®-2420 + 50 wt.-% Thinner C

Protection from salt solutions / freeze thaw:

2 - 3* x Sikafloor[®]-2420

*Always apply multiple coats "wet on wet" with the waiting time between coats: 15 - 30 minutes.

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Impregnation	Sikafloor®-2420 optional diluted with 10 - 50% Thinner C	0.1 - 0.2 kg/m²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and 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 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 or scarifying 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 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.

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^{*}No simultaneous chemical and mechanical exposure.

Application Conditions / Limitations				
Substrate Temperature	+10 °C min. / +30 °C max.			
Ambient Temperature	+10°C min. / +30°C max.			
Substrate Moisture	≤ 4% pbw moisture content.			
Content	Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.			
	No rising moisture according to ASTM (Polyethylene-sheet).			
Relative Air Humidity	80% r.h. max.			
Dew Point	Beware of condensation!			
	The substrate and uncured floor must be a risk of condensation or blooming on the flo			
Application Instructions				
Mixing	Part A: part B = 50: 50 (by weight)			
Mixing Time	Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 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 avoided to minimise	air entrainment.		
Mixing Tools	Sikafloor®-2420 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.			
Application Method / Tools	Prior to application, confirm substrate moisture content, relative humidity and dew point. If > 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system. Primer: Make sure that a continuous, pore free coat covers the substrate. Always apply the 1st coat of Sikafloor®-2420 by brush. The following coats can be applied by brush or roller. Impregnation: Apply the 1st coat of Sikafloor®-2420 by brush. The following coats can be applied by brush or roller.			
	Avoid "puddling" on the surface with the pr	imer.		
	Do not apply Sikafloor®-2420 on bituminou	is substrates.		
Cleaning of Tools	Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.			
Potlife				
	Temperatures	Time		
	+10℃	~ 10 hours		
	+20℃	~ 8 hours		
	+30 ℃ ~ 4 hours			

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Waiting Time / Before applying Sikafloor®-coatings on Sikafloor®-2420 allow: Overcoating Minimum Substrate temperature Maximum +10°C 30 hours 3 days +20℃ 24 hours 2 days 20 hours +30℃ 2 days Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. Do not apply Sikafloor®-2420 on substrates with rising moisture. Notes on Application / Limitations Freshly applied Sikafloor®-2420 must be protected from damp, condensation and water for at least 24 hours. Avoid puddles on the surface with the primer For external applications, apply on a falling temperature. If applied during rising

temperatures "pin holing" may occur from rising air.

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℃	~ 36 hours	~ 5 days	~ 10 days
+20℃	~ 24 hours	~ 3 days	~ 7 days
+30℃	~ 16 hours	~ 2 days	~ 5 days

Note: Times are approximate and will be affected 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.

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 should 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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Construction

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, Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

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NPD

NPD



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Reaction to fire:

Sound absorption:

Chemical resistance:

EN 13813 SR-B1,5

Primer/sealer (systems as per Product Data Sheet)

Release of corrosive substances (Synthetic Resin Screed):

Water permeability: NPD
Abrasion Resistance: NPD

Bond strength: B 1,5
Impact Resistance: NPD

Sound insulation: NPD

Thermal resistance: NPD

EU Regulation 2004/42

VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / **h** type **sb**) is 750 / 750 g/l (Limits 2007 / 2010) for the ready to use product.

The maximum content of **Sikafloor**[®]**-2420** is < 750 g/l VOC for the ready to use product.



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ISO 14001 ISO 9001

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

²⁾ In Germany, DIN 4102 still applies. Passed class B2.

³⁾ No performance determined.

⁴⁾ Not broadcast with sand.