

## Sikafloor®-2420

### 2-Part Epoxy Impregnation and Primer

**Product Description** Sikafloor®-2420 is a two-part, solvent containing, epoxy resin impregnation and primer. Suitable for use in hot and tropical climates.

**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 / Advantages**

- Low viscosity
- Good penetration abilities
- Also suitable 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** Epoxy

**Density (at +23°C)**

Part A:	approximately 0.95 kg/l	(DIN EN ISO 2811-1)
Part B:	approximately 0.90 kg/l	
Mixed resin:	approximately 0.93 kg/l	

**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°C
Short-term max. 7 days	+80°C
Short-term max. 12 hrs	+100°C

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

\*No simultaneous chemical and mechanical exposure.

## System Information

### System Structure

*Primer for Sikafloor® coatings:*

1 - 2\* x **Sikafloor®-2420** +10 - 50 wt.-% Thinner C

*Impregnation of concrete surfaces:*

Minimum 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
Primer, Impregnation	<b>Sikafloor®-2420</b> optional diluted with 10 - 50% Thinner C	0.1 - 0.2 kg/m <sup>2</sup>

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/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

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 a profiled open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to substrate, filling of blowholes/voids and surface levelling can 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 up 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.

## Application Conditions / Limitations

**Substrate Temperature** +10°C min. / +30°C max.

**Ambient Temperature** +10°C min. / +30°C max.

**Substrate Humidity** ≤ 4% pbw moisture content.  
Test method: Sika-Tramex meter or CM-measurement.  
No rising moisture according to ASTM (Polyethylene-sheet).

**Relative Air Humidity** 80% r.h. max.

<b>Dew Point</b>	Beware of condensation! The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.
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### Application Instructions

<b>Mixing</b>	Part A : part B = 50 : 50 (by weight)
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<b>Mixing Time</b>	Prior to mixing stir part A mechanically. When all of part B has been added to part A, continuously mix 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 minimize air entrainment.
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<b>Mixing Tools</b>	<b>Sikafloor®-2420</b> must be mechanically mixed using an electric power stirrer (300 - 400 rpm) or other suitable equipment.
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<b>Application Method / Tools</b>	Prior to application, confirm substrate moisture content, relative humidity and dew point.
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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 1<sup>st</sup> coat of **Sikafloor®-2420** by brush. The following coats can be applied by brush or roller.

*Impregnation:*

Apply the 1<sup>st</sup> coat of **Sikafloor®-2420** by brush. The following coats can be applied by brush or roller.

Avoid “puddling” on the surface with the primer.

Do not apply **Sikafloor®-2420** on bituminous substrates.

<b>Cleaning of Tools</b>	Clean all tools and application equipment with Thinner C immediately after use. Hardened / cured material can only be mechanically removed.
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**Potlife**

Temperatures	Time
+10°C	~ 10 hours
+20°C	~ 8 hours
+30°C	~ 4 hours

**Waiting Time / Overcoatability** Before applying Sikafloor®-coatings on **Sikafloor®-2420** allow:

Substrate temperature	Minimum	Maximum
+10°C	30 hours	3 days
+20°C	24 hours	2 days
+30°C	20 hours	2 days

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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**Notes on Application / Limitations**

Do not apply **Sikafloor®-2420** on substrates in which significant vapour pressure may occur.

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.

**Tools**

Recommended supplier of tools:

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, [www.polyplan.com](http://www.polyplan.com)

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

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**Curing Details****Applied Product ready for use**

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 36 hours	~ 5 days	~ 10 days
+20°C	~ 24 hours	~ 3 days	~ 7 days
+30°C	~ 16 hours	~ 2 days	~ 5 days

Note: Times are approximate and will be affected by changing ambient conditions.

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**Notes**

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.

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**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.

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**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.

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**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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## 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 should 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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