

**Product Data Sheet**  
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Sikafloor®-375

## Sikafloor®-375

2-part PUR tough elastic, crack-bridging coating

|  |   |
|--|---|
| <b>Product Description</b>             | Sikafloor®-375 is a two part, solvent free, low viscosity, tough elastic, crack-bridging polyurethane resin.  |
| <b>Uses</b>                            | <ul style="list-style-type: none"><li>■ For crack bridging, trafficable, slip resistant wearing layers</li><li>■ For car park decks, garage floors and bridges</li></ul>  |
| <b>Characteristics / Advantages</b>    | <ul style="list-style-type: none"><li>■ Good crack bridging ability</li><li>■ Mechanically resistant if broadcast</li><li>■ Watertight</li><li>■ Easy application</li><li>■ Solvent free</li></ul>  |
| <b>Test</b>                            |   |
| <b>Approval / Standards</b>            | <p>Coating for concrete protection according to the requirements of EN 1504-2:2004 and the EN 13813:2002, DoP 0208010401100000051008 certified by Factory Production Control Body, 0921 and provided with the CE-mark.</p> <p>Certified as part of the Surface Protection System OS 11a according to DIN EN 1504-2 and DIN V 18026.</p> <p>Certified as part of the Surface Protection System OS 13 according to DIN EN 1504-2 and DIN V 18026.</p> <p>Reaction to Fire classification according to DIN EN 13501-1. Test institute Hoch Report No. KB-Hoch-101213 .</p> |
| <b>Product Data</b>                    |   |
| <b>Form</b>                            |   |
| <b>Appearance / Colours</b>            | beige   |
| <b>Packaging</b>                       | Part A: 24.00 kg pail<br>Part B: 6.00 kg pail<br>Part A+B: 30 kg ready to mix units   |
| <b>Storage</b>                         |   |
| <b>Storage Conditions / Shelf-Life</b> | 12 months from date of production if stored properly in undamaged original packaging in dry and cool conditions at temperatures between +5°C and +30°C.   |



## Technical Data

|                      |   |             |
|----------------------|---|-------------|
| <b>Chemical Base</b> | Polyurethane                            |             |
| <b>Density</b>       | Part A:                                 | ~ 1.66 kg/l |
|                      | Part B:                                 | ~ 1.24 kg/l |
|                      | Part A+B:                               | ~ 1.55 kg/l |
| <b>Solid Content</b> | ~ 100% (by volume) / ~ 100% (by weight) |             |

## Mechanical / Physical Properties

|                            |                      |             |
|----------------------------|----------------------|-------------|
| <b>Tensile Strength</b>    | 11 N/mm <sup>2</sup> | (DIN 53504) |
| <b>Elongation at Break</b> | 110%                 | (DIN 53504) |

## Resistance

### Thermal Resistance

|                     |          |
|---------------------|----------|
| Exposure*           | Dry heat |
| Permanent           | +50 °C   |
| Short-term max. 7 d | +80 °C   |

\*No simultaneous chemical and mechanical exposure.

### EU Regulation 2004/42

#### VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type **sb**) is 550 / 500 g/l (Limits 2007 / 2010) for the ready to use product.

The maximum content of **Sikafloor®-375** is < 500 g/l VOC for the ready to use product.

### USGBC

#### LEED Rating

Sikafloor®-375 conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings  
EPA Reference Test Method 24 VOC Content < 100 g/l

## System Information

### System Structure

Broadcast highly crack-bridging coloured system (OS 11a, according to DIN EN 1504-2 and DIN V 18026):

Primer: 1-2 x Sikafloor®-156 / -161 lightly broadcast with quartz sand 0.4 - 0.7

mm

Base coat: Sikafloor®-350 N Elastic

Wearing course: Sikafloor®-375 (filled with 20% quartz sand 0.1 - 0.3 mm)  
Broadcast to excess with quartz sand 0.7 - 1.2 mm

Seal coat: 1-2 x Sikafloor®-358 or Sikafloor®-359 N

Broadcast highly crack-bridging waterproofing system, base coat spray applied:

Primer: 1-2 x Sikafloor®-156 / -161 / -186 lightly broadcast with quartz sand 0.4

- 0.7 mm

Base coat: Sikalastic®-821 LV

Wearing course: Sikafloor®-375 (filled with 20% quartz sand 0.1 - 0.3 mm)  
Broadcast to excess with quartz sand 0.7 - 1.2 mm

Seal coat: 1-2 x Sikafloor®-358 or Sikafloor®-359 N

Broadcast coloured flexible system (OS 13, according to DIN EN 1504-2 and DIN V 18026):

Primer: 1-2 x Sikafloor®-156 / -161 lightly broadcast with quartz sand 0.4 - 0.7

mm

Wearing course: Sikafloor®-375

Broadcast to excess with quartz sand 0.4 - 0.7 mm  
or 0.7 - 1.2 mm

Seal coat: 1-2 x Sikafloor®-358 or Sikafloor®-359 N

\*For exposed areas the use of Sikafloor®-359 N as a seal coat is mandatory.



For application on inclined / sloping surfaces:  
Use the same systems as described with the addition of Sika® Extender T as stated below.

## Application Details

### Consumption / Dosage Broadcast highly crack-bridging coloured system (OS 11a)

| Coating System           | Product   | Consumption   |
|--------------------------|---|---|
| Primer (lightly blinded) | 1-2 x Sikafloor®-156 / -161<br>Quartz sand 0.4 - 0.7 mm | 1-2 x ~ 0.3 - 0.5 kg/m <sup>2</sup><br>~ 0.8 kg/m <sup>2</sup>  |
| Base coat                | Sikafloor®-350 N Elastic                                | ~ 2.2 kg/m <sup>2</sup>   |
| Wearing course           | Sikafloor®-375 filled with<br>quartz sand 0.1 – 0.3 mm  | ~ 1.86 kg/m <sup>2</sup> (1.55 kg/m <sup>2</sup> binder + 0.31<br>kg/m <sup>2</sup> quartz sand 0,1-0,3 mm) |
|                          | Broadcast to excess with<br>quartz sand 0.7 - 1.2 mm    | ~ 6 - 8 kg/m <sup>2</sup>   |
| Seal coat                | 1-2 x Sikafloor®-358 or -<br>359 N*                     | ~ 0.7 - 0.9 kg/m <sup>2</sup>   |

### Broadcast highly crack-bridging waterproofing system , base coat spray applied

| Coating System           | Product  | Consumption  |
|--------------------------|--|--|
| Primer (lightly blinded) | 1-2 x Sikafloor®-156 / -161<br>/-186<br>Quartz sand 0.4 - 0.7 mm | 1-2 x ~ 0.3 - 0.5 kg/m <sup>2</sup><br>~ 0.8 kg/m <sup>2</sup>   |
| Base coat                | Sikalastic®-821 LV   | ~ 1.5 kg/m <sup>2</sup>  |
| Wearing course           | Sikafloor®-375 filled with<br>quartz sand 0.1 – 0.3 mm           | ~ 1.5 kg/m <sup>2</sup> (1.2 kg/m <sup>2</sup> binder +<br>0.3 kg/m <sup>2</sup> quartz sand 0,1-0,3 mm) |
|                          | Broadcast to excess with<br>quartz sand 0.7 - 1.2 mm             | ~ 6 - 8 kg/m <sup>2</sup>  |
| Seal coat                | 1-2 x Sikafloor®-358 or -<br>359 N*                              | ~ 0.7 - 0.9 kg/m <sup>2</sup>  |

### Broadcast coloured flexible system (OS 13)

| Coating System           | Product   | Consumption  |
|--------------------------|---|--|
| Primer (lightly blinded) | 1- 2 x Sikafloor®-156 / -161<br>Quartz sand 0.4 - 0.7 mm                | 1-2 x ~ 0.3 - 0.5 kg/m <sup>2</sup><br>~ 0.8 kg/m <sup>2</sup> |
| Wearing course           | Sikafloor®-375  | ~ 1.5-1.8 kg/m <sup>2</sup>                                    |
|                          | Broadcast to excess with<br>quartz sand 0.4 - 0.7 mm or<br>0.7 - 1.2 mm | ~ 6 - 8 kg/m <sup>2</sup>                                      |
| Seal coat                | 1-2 x Sikafloor®-358 or -<br>359 N*                                     | ~ 0.7 - 0.9 kg/m <sup>2</sup>                                  |

\*For exposed areas the use of Sikafloor®-359 N as a seal coat is mandatory.

These figures are theoretical and do not allow for any additional material due to application technique, surface porosity, surface profile, variations in level and wastage etc.



For application on inclined / sloping surfaces

| Slope (%)  | Extender T (wt.-%, related to Sikafloor®-375 at +20°C) |
|------------|--|
| 0 - 2.5    | -  |
| 2.5 - 5.0  | 1  |
| 5.0 - 10.0 | 2  |
| 10 - 15    | 2.5  |
| 15 - 20    | 3  |

These figures are theoretical and do not allow for any additional material 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 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 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.

## Application Conditions / Limitations

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

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

**Substrate Moisture Content** ≤ 4% pbw moisture 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.

**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

|                                   |   |
|-----------------------------------|---|
| <b>Mixing</b>                     | Part A : part B = 80 : 20 (by weight)   |
| <b>Mixing Time</b>                | <p>Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.</p> <p>For the addition of quartz sand:<br/>When parts A and B have been mixed, add the quartz sand 0.1 - 0.3 mm and mix for a further 2 minutes until a uniform mix has been achieved.</p> <p>To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.</p> <p>Over mixing must be avoided to minimise air entrainment.</p>  |
| <b>Mixing Tools</b>               | Sikafloor®-375 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.   |
| <b>Application Method / Tools</b> | <p>Prior to application, confirm substrate moisture content, r.h. and dew point.</p> <p>If &gt; 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.</p> <p><i>Primer:</i><br/>Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-156 or 161 by brush, roller or squeegee. Preferred application is by using a squeegee and then backrolling crosswise.</p> <p><i>Broadcast wearing course:</i><br/>Sikafloor®-375 is poured and spread evenly with a serrated / notched trowel. Then, level and remove entrained air with a spiked roller and broadcast with quartz sand, at first lightly and then to excess.</p> |
| <b>Cleaning of Tools</b>          | 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°C        | ~ 60 minutes |
| +20°C        | ~ 25 minutes |
| +30°C        | ~ 15 minutes |



## Waiting Time / Overcoating

Before applying Sikafloor®-375 on Sikafloor®-156 / -161 allow:

| Substrate temperature | Minimum  | Maximum |
|-----------------------|----------|---------|
| +10 °C                | 24 hours | 3 days  |
| +20 °C                | 12 hours | 2 days  |
| +30 °C                | 6 hours  | 1 days  |

Before applying Sikafloor®-375 on Sikafloor®-350 Elastic allow:

| Substrate temperature | Minimum  | Maximum  |
|-----------------------|----------|----------|
| +10 °C                | 24 hours | 2 days   |
| +20 °C                | 15 hours | 24 hours |
| +30 °C                | 8 hours  | 16 hours |

Before applying Sikafloor®-375 on Sikalastic-821 LV allow:

| Substrate temperature | Minimum    | Maximum |
|-----------------------|------------|---------|
| +10 °C                | 1 hours    | 2 days  |
| +20 °C                | 30 minutes | 2 days  |
| +30 °C                | 15 minutes | 2 days  |

Before applying Sikafloor®-358 / -359 N on Sikafloor®-375 broadcast allow:

| Substrate temperature | Minimum  | Maximum |
|-----------------------|----------|---------|
| +10 °C                | 24 hours | *       |
| +20 °C                | 12 hours | *       |
| +30 °C                | 5 hours  | *       |

\* No max. waiting time if fully broadcast surface is free from all contaminations.

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

## Notes on Application / Limitations

Do not apply Sikafloor®-375 on substrates with rising moisture.

Freshly applied Sikafloor®-375 must be protected from damp, condensation and water for at least 24 hours.

Uncured material reacts in contact with water (foaming). During application care must be taken that no sweat drops into fresh Sikafloor®-375 (wear head and wrist bands).

### Tools

Recommended Supplier of Tools:

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

Serrated trowel for smooth wearing layer:

e.g. Large-Surface Scraper No. 565, Toothed blades No. 25

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

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O 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   | ~ 3 days      | ~ 7 days  |
| +20 °C      | ~ 12 hours   | ~ 30 hours    | ~ 5 days  |
| +30 °C      | ~ 5 hours    | ~ 24 hours    | ~ 4 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 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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