

Sikafloor[®]-375

2-part PUR tough elastic, crack-bridging coating

Positioning Description	Sikafloor [®] -375 is a two part, solvent free, low viscosity, tough elastic, crack-bridging polyurethane resin.
Uses	<ul style="list-style-type: none">• For crack bridging, trafficable, slip resistant wearing layers• For car park decks, garage floors and bridges
Advantages	<ul style="list-style-type: none">• Good crack bridging ability• Mechanically resistant if broadcast• Watertight• Easy application• Solvent free
Approval / Standards	Certified as part of the Surface Protection System OS 11a according to DIN EN 1504-2 and DIN V 18026. Certified as part of the Surface Protection System OS 13 according to DIN EN 1504-2 and DIN V 18026.

Product Data

Colours	Beige
Packaging	Part A: 24.00kg pail Part B: 6.00kg pail Part A+B: 30kg ready to mix units
Storage & Shelf-Life	Twelve (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

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

Mechanical / Physical Properties

Tensile Strength	11N/mm ²	(DIN 53504)
Elongation at Break	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.

Construction



**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 < 100g/l

System Information

System Structure

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

Primer: Sikafloor®-156 / Sikafloor®-161 lightly broadcast with Sika Aggregate 501
Base coat: Sikafloor®-350 Elastic
Wearing course: Sikafloor®-375 (filled with 20% Sika Aggregate 508)
Broadcast to excess with Sika Aggregate 501
Seal coat: Sikafloor®-359 N

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

Primer: Sikafloor®-156 / Sikafloor®-161 lightly broadcast with Sika Aggregate 501
Wearing course: Sikafloor®-375
Broadcast to excess with Sika Aggregate 501
Seal coat: Sikafloor®-359 N

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 screed (OS 11a)

Coating System	Product	Consumption
Primer (lightly blinded)	Sikafloor®-156 / Sikafloor®-161 Sika® Aggregate 501	1-2 x ~ 0.3 - 0.5kg/m ² ~ 0.8kg/m ²
Base coat	Sikafloor®-350 Elastic	~ 2.2kg/m ²
Wearing course	Sikafloor®-375 filled with Sika® Aggregate 508	~ 1.86kg/m ² (1.55kg/m ² binder + 0.31 kg/m ² quartz sand 0,1-0,3 mm)
	Broadcast to excess with Sika® Aggregate 501	~ 6 – 8kg/m ²
Seal coat	Sikafloor®-359 N	~ 0.7 - 0.9kg/m ²

Broadcast coloured flexible screed (OS 13)

Coating System	Product	Consumption
Primer (lightly blinded)	Sikafloor®-156 / Sikafloor®-161 Sika® Aggregate 501	1-2 x ~ 0.3 - 0.5kg/m ² ~ 0.8kg/m ²
Wearing course	Sikafloor®-375	~ 1.8kg/m ²
	Broadcast to excess with Sika® Aggregate 501	~ 6 - 8kg/m ²
Seal coat	Sikafloor®-359 N	~ 0.7 - 0.9kg/m ²

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/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.

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

Mixing Part A : part B = 80 : 20 (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 2 minutes until a uniform mix has been achieved.

For the addition of quartz sand:

When parts A and B have been mixed, add the Sika Aggregate 508 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 avoided to minimise air entrainment.



Mixing Tools

Sikafloor®-375 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, r.h. 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. 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.

Broadcast wearing course:

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.

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°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.

Avoid puddles on surface with the primer.

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.

Serrated trowel for smooth wearing layer:

e.g. Large-Surface Scrapper 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 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	~ 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.

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.

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 & Safety Instructions**Protective Measures**

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.

Important Notes

- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.




CE Labelling

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):

	
Sika (NZ) Ltd 85-91 Patiki Road, Avondale Auckland, New Zealand	
04 ¹⁾	
EN 13813 SR-B1,5-AR1-IR 4	
Resin screed/coating for indoors in buildings (systems as per Product Data Sheet)	
Reaction to fire:	E _n ²⁾
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD ³⁾
Abrasion Resistance:	AR1 ⁴⁾
Bond strength:	B 1,5
Impact Resistance:	IR 4
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

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.




CE Labelling

The harmonized European Standard EN 1504-2 „Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 2 : Surface protection systems for concrete” gives specifications for products and systems used as methods for the various principles presented under EN 1504-9.

Products which fall under this specification have to be CE-labelled as per Annex ZA. 1, Tables ZA.1a to ZA 1g according to the scope and relevant clauses there indicated, and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

Here below indicated are the minimum performance requirements set by the standard. For the specific performance results of the product to the particular tests, please see the actual values above in the PDS.

	
0921	
Sika (NZ) Ltd 85-91 Patiki Road, Avondale Auckland, New Zealand	
08 ¹⁾	
0921–BPR–2017	
EN 1504-2	
Surface Protection Product Coating ²⁾	
Abrasion resistance (Taber test):	< 3000mg
Permeability to CO ₂ :	S _D > 50m
Permeability to water vapour:	Class III
Capillary absorption and permeability to water:	W ₆ < 0.1kg/m ² x h ^{0.5}
Resistance to severe chemical attack: ³⁾	Class I
Impact resistance:	Class I
Adhesion strength by pull-off test:	≥ 1.5N/mm ²
Fire Classification: ⁴⁾	E _{fl}

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

²⁾ Tested as a part of a system build-up with Sikafloor[®]-156, Sikafloor[®]-375 and Sikafloor[®]-358.

³⁾ Please refer to the Sikafloor[®] Chemical Resistance Chart.

⁴⁾ Min. classification, please refer to the individual test certificate.

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 / 500g/l (Limits 2007 / 2010) for the ready to use product.

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

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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