

Sikafloor[®]-Comfort Adhesive

2-part PUR part of the Sika[®]-ComfortFloor Pro[®] and Sika[®]-ComfortFloor Decorative[®] Pro System

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|---|--|--------------|
| Positioning Description | Sikafloor [®] -Comfort Adhesive is a two part, total solid, low VOC, PUR used to adhere Sikafloor [®] -Comfort Regupol 6015H and Sikafloor [®] -Comfort Regupol 4580. | |
| Uses | <ul style="list-style-type: none">• Durable high quality adhesive, used to permanently adhere prefabricated granular rubber on concrete and cementitious screeds.• Particularly suitable for hospitals, schools, sales premises, showrooms, entrance halls, lobbies, open-plan offices, museums• For interior use only | |
| Advantages | <ul style="list-style-type: none">• Good bonding properties• Low VOC• Non flammable• No shrinking after curing• Easy to apply | |
| Product Data | | |
| Appearance / Colours | Resin - part A: Light Brown, liquid Hardener - part B: Light Brown, Transparent, liquid | |
| Packaging | Part A: 17kg containers Part B: 3kg containers Part A+B: 20.0kg ready to mix units | |
| Storage & Shelf-Life | Twelve (12) 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. Prolonged vibrations and higher ambient temperatures during transportation can result in settling of the A Component, which makes mixing more difficult. Prolonged storage at low temperatures can result in crystallizing of the B Component. | |
| Technical Data | | |
| Chemical Base | PUR | |
| Density | Mixed Resin: ~ 1.50kg/l All Density values at +23°C. | |
| Solid Content | ~ 100% (by volume) / ~ 100% (by weight) | |
| Mechanical / Physical Properties | | |
| Tensile Strength | Resin: ~ 9.0N/mm ² (14 days / +23°C) | (DIN 53504) |
| Bond Strength | > 1.5N/mm ² (failure in concrete) | (EN 13892-8) |
| Shore A Hardness | Resin: ~ 93 (14 days / +23°C) | (DIN 53505) |
| Elongation at Break | Resin: ~ 50% (14 days / +23°C) | (DIN 53504) |

Construction



System Information

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|-------------------------|--|
| System Structure | Sika®-ComfortFloor Pro®: |
| | Adhesive: 1 x Sikafloor®-Comfort Adhesive |
| | Rubber Shockpad: 1 x Sikafloor®-Comfort Regupol 6015 H |
| | Porefiller: 1 x Sikafloor®-Comfort Porefiller |
| | Wearing course: 1 x Sikafloor®-330 |
| | Seal coat (mandatory): 1-2 x Sikafloor®-305 W |

Application Details

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|------------------------------|--|
| Consumption / Dosage | Strongly depending on subfloor, usually 0.45 – 0.90kg/m ² . |
| Substrate Quality | Concrete substrates must be sound and of sufficient compressive strength (minimum 25N/mm ²) with a minimum pull off strength of 1.5N/mm ² . 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 and cementitious screeds 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. 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

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|-----------------------------------|---|
| Substrate Temperature | +10°C min. / +30°C max. |
| Ambient Temperature | +10°C min. / +30°C max. |
| Substrate Moisture Content | ≤ 3% 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. max. |
| Dew Point | 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. |

Application Instructions

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|-----------------------------------|---|
| Mixing | Part A : part B = 85 : 15 (by weight) |
| Mixing Time | Check if the B component is free of crystallization. Should crystals be found the B component has to be heated to 60°C until all crystals re-dissolve. Premix the A Component and check the condition of the material. Add the complete contents of the B Component and mix A and B thoroughly to a homogeneous mixture. Do not dilute! Over mixing must be avoided to minimise air entrainment. |
| Mixing Tools | Sikafloor®-Comfort Adhesive must be thoroughly mixed using a low speed electric stirrer (300 - 400rpm) or other suitable equipment. |
| Application Method / Tools | Prior to application, confirm substrate moisture content, r.h. and dew point. To gain the maximum flow properties the full contents of the mixture should be poured out as quickly as possible (within the potlife) and should be spread out immediately. Roll out the shockpad into the wet adhesive and press down with Linoroller (55kg) during the tack-phase. |



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 | ~ 45 minutes |
| +30°C | ~ 30 minutes |

Waiting Time / Overcoating Tack phase to adhere the Sikafloor®-Comfort Regupol 6015H or Sikafloor®-Decorative 4580

| Substrate temperature | Minimum | Maximum |
|-----------------------|---------|---------|
| +10°C | 180 min | 360 min |
| +20°C | 90 min | 180 min |
| +30°C | 60 min | 90 min |

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

Notes on Application / Limitations

Do not apply Sikafloor®-Comfort Adhesive substrates with rising moisture.

Do not apply on substrate surfaces with a slope > 1%.

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

Tools

Serrated trowel for smooth wearing layer:

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

Recommended supplier of tools:

TECHNO-Werkzeuge A.E; Vertriebs GmbH

Dieselstr. 44; 42579 Heiligenhaus, Phone: 02056 / 9846-0

Info@Techno-Vertrieb.de; Homepage: <http://www.techno-vertrieb.de>

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com.

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 | Full cure |
|-------------|--------------|------------|
| +10°C | ~ 12 hours | ~ 60 hours |
| +20°C | ~ 8 hours | ~ 36 hours |
| +30°C | ~ 6 hours | ~ 24 hours |

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 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.

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|  | |
| 0958 | |
| Sika (NZ) Ltd 85-91 Patiki Road, Avondale Auckland, New Zealand | |
| 09 ¹⁾ | |
| 0958–CPD–1041 | |
| 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 II |
| Capillary absorption and permeability to water: | $w < 0.1\text{kg/m}^2 \times \text{h}^{0.5}$ |
| Resistance to severe chemical attack: ³⁾ | Class II |
| Impact resistance: | Class II |
| Adhesion strength by pull-off test: | ≥ 0.8N/mm ² |
| Fire Classification: ⁴⁾ | E _n |

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

²⁾ Tested as part of system build-up Sika ComfortFloor Pro consisting of Sikafloor® Comfort Adhesive, Sikafloor®-Comfort Regupol 6015 H, Sikafloor® Comfort Porefiller, Sikafloor®-330 and Sikafloor®-305 W

³⁾ For details please refer to 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 500g/l (Limit 2010) for the ready to use product.

The maximum content of **Sikafloor®-Comfort Adhesive** 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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