

PRODUCT DATA SHEET

Sikafloor®-415

1-PART, PIGMENTED, ALIPHATIC PUR SEALER AND BASE COAT

SIKA NZ
APPROVED
CONTRACTOR
ONLY

DESCRIPTION

Sikafloor®-415 is a one part, aliphatic polyurethane coating on carbonate base used as a wear-resistant finishing coat for the Sikafloor® MonoFlex Premium Systems but also used in combination with the Sika PU Accelerator as a sealer and base coat for Sikafloor® MonoFlex MB-29.

USES

- Sikafloor®-415 may only be used by experienced professionals.
- Abrasion resistant seal coat with crack-bridging properties
 - Seal coat for Sikafloor®-405
 - Together with Sika® PU Accelerator used as the base and seal coat of the Sikafloor® MonoFlex MB-29
 - Only for exterior application

CHARACTERISTICS / ADVANTAGES

- Moisture triggered
- Elastic
- Crack-bridging
- Waterproof
- Water vapour permeable
- Good UV and yellowing resistance
- Weather resistant
- Abrasion resistant with normal pedestrian use
- Slip resistant
- Fast cure possible with additional Sika® PU Accelerator

APPROVALS / STANDARDS

Liquid-applied waterproofing using kits based on polyurethane for use on roofs, terraces and balconies according ETAG 005 part 6, European Technical Assessment ETA-13/0231 issued by British Board of Agrément, Declaration of Performance 0208010301000000171148 / 1100000011148 / 1200000011148 / 1300000011148, certified by notified factory production control body 0836 and provided with the CE marking.

PRODUCT INFORMATION

Chemical Base	PUR
Packaging	5 litres (5.50 kg)
Appearance / Colour	Pigmented liquid. Standard Colour: 7015. Limited colours available on indent.
Shelf Life	9 months from date of production
Storage Conditions	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C.
Density	1.10 kg/l Density value at +23°C. (EN ISO 2811-1)

Solid content by weight	~60.5 %	(EN ISO 3251)
Solid content by volume	~67.7 %	(EN ISO 3251)

TECHNICAL INFORMATION

Tensile Strength	~ 25 N/mm	(EN ISO 527-1/EN ISO 527-3)
Elongation at Break	~ 230 %	(EN ISO 527-1/EN ISO 527-3)
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information.	

SYSTEM INFORMATION

Systems	Please refer to the System Data Sheet of: Sikafloor® MonoFlex MB-29 Broadcast, 1-component, extra fast curing, crack bridging, decorative quartz finish floor covering	
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APPLICATION INFORMATION

Consumption	Please refer to the System Data Sheet											
Layer Thickness	~0.3–0.45 kg/m ² /layer depending on the application. Please refer to the respective System Data Sheet.											
Ambient Air Temperature	+2 °C min. / +30 °C max.											
Relative Air Humidity	80 % r.h. max. 35 % min. (below +20 °C: 45 % min.)											
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.											
Substrate Temperature	+2 °C min. / +30 °C max. Frozen substrates must defrost for 24 hours.											
Substrate Moisture Content	Visible damp free (maximum 18 % wood moisture equivalent). < 6 % pbw moisture content Test method: Sika®-Tramex meter, < 4 % CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene sheet).											
Pot Life	The material in opened containers should be applied immediately. With open containers surface film formation will happen within approx. 1–2 hours. High temperatures and high air humidity will accelerate curing significantly.											
Curing Time	Before applying Sikafloor®-415 on Sika®-Concrete Primer allow: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Substrate temperature</th> <th style="text-align: left;">Dry to touch</th> <th style="text-align: left;">Dry through</th> </tr> </thead> <tbody> <tr> <td>+20 °C</td> <td>10 minutes</td> <td>30 minutes</td> </tr> </tbody> </table> <p>Apply an additional coat if more than 5 days pass before coating. If necessary another coat of Sikafloor®-415 can be applied within 24 hours after the application of the previous coat. Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.</p>			Substrate temperature	Dry to touch	Dry through	+20 °C	10 minutes	30 minutes			
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Note: Times are approximate and will be affected by changing ambient conditions.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull of strength shall not be less than 1.5 N/mm². If in doubt apply a test area first.

MIXING

Sikafloor®-415 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point. As a first and second coat the product can be applied by medium pile solvent resistant roller. As a sealer coat the product can be applied by squeegee and then back-rolled (crosswise) with a medium pile solvent resistant roller.

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.

FURTHER DOCUMENTS

Method Statement: Sika Balcony System

Maintenance Instructions: Sikafloor®-415 - Maintenance Recommendation - Diversey.

LIMITATIONS

- Prior to overcoating with Sikafloor®-415, the priming coats must have cured tack free.
- Do not use for interior applications.
- Always apply during falling temperatures. If applied during rising temperatures "pin holing" may occur from rising air. If this is not possible and the substrate seems to be outgassing the use of Sika® Concrete Primer is necessary. In this case the Sika® Concrete Primer replaces the Sika® Bonding Primer. Please refer to the Product Data Sheet of Sika® Concrete Primer.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-415 in each area is applied from the same control batch numbers. 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.

BASIS OF PRODUCT DATA

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.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / i type sb) is 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikafloor®-415 is < 500 g/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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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