

PRODUCT DATA SHEET

Sikafloor®-415

1-part, pigmented, aliphatic polyurethane sealer and base coat

SIKA NZ
APPROVED
CONTRACTOR
ONLY

DESCRIPTION

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

USES

Sikafloor®-415 may only be used by experienced professionals.

Sikafloor®-415 is used as a:

- Seal coat for Sikafloor®-405
- Base coat or seal coat in combination with Sika® PU Accelerator

Please note:

- The Product may only be used by experienced professionals.
- The Product may only be used for exterior applications.

CHARACTERISTICS / ADVANTAGES

- Easy-to-use 1-part technology
- Good resistance to abrasion (under normal pedestrian use)
- Very good crack-bridging ability
- Fast curing with the addition of Sika® PU Accelerator
- Very good yellowing resistance
- Moisture-activated curing

- Elastic
- Good resistance to UV exposure
- Good slip resistance
- Semi-gloss finish
- Impermeable to liquids

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

APPROVALS / STANDARDS

- CE marking and declaration of performance based on European Technical Assessment ETA-20/1020. ETA issued on the basis of EAD 030350-00-0402 Liquid applied roof waterproofing kits.
- Sikafloor-405 European Technical Assessment ETA-20/1020

PRODUCT INFORMATION

Chemical Base	Polyurethane
Packaging	5 L (5.5 kg) Refer to the current price list for available packaging variations.

Appearance / Colour	Appearance and colour	Pigmented liquid
	Cured colour	RAL 3009, RAL 6002, RAL 7015, RAL 7032, RAL 7042, RAL 7047
Shelf Life	9 months from date of production	
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	1.10 kg/l	(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	Cured 24 hours at +60 °C	25 MPa	(EN ISO 527-3)
Elongation at Break	Cured 24 hours at +60 °C	230 %	(EN ISO 527-3)

APPLICATION INFORMATION

Consumption	0.3–0.45 kg/m² (~0.27-41 L/m²)per layer		
Product Temperature	Maximum	+30 °C	
	Minimum	+2 °C	
Ambient Air Temperature	Maximum	+30 °C	
	Minimum	+2 °C	
Relative Air Humidity	Maximum	80 % r.h.	
	Minimum	35 % or 45 % at > + 20 °C	
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation on the surface of the applied product.		
Substrate Temperature	Maximum	+30 °C	
	Minimum	+2 °C	
Substrate Moisture Content	Substrate	Test method	Moisture content
	Cementitious substrates	Calcium carbide method (CM method)	≤ 4 %
	Cementitious substrates	Sika® Tramex moisture meter	≤ 6 %
	No rising moisture (ASTM D4263, polyethylene sheet)		
Pot Life	After opening containers apply material immediately. As soon as the container is opened, surface film formation will happen within 1–2 hours. High temperatures and high air humidity will accelerate curing significantly.		
Applied Product Ready for Use	Temperature	Rain resistant	Foot traffic
	+20 °C / 75 % r.h., standard	~6 hours	~12 hours
	+20 °C / 75 % r.h., accelerated	~1 hour	~2 hours
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			

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.

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.

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REGULATION (EC) NO 1907/2006 - REACH

APPLICATION INSTRUCTIONS

EQUIPMENT

APPLICATION EQUIPMENT

- Smoothing trowel
- Medium-pile nylon roller

MIXING EQUIPMENT

- Electric single-paddle mixer (300 to 400 rpm)

APPLICATION EQUIPMENT

- Squeegee
- Medium-pile nylon roller
- Long-pile nylon roller

SUBSTRATE QUALITY

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 25 MPa) with a minimum tensile strength of 1.5 MPa. Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

MIXING

1. Before application, mix for at least 2 minutes or until the liquid and all the coloured pigment have achieved a uniform colour.

APPLICATION

IMPORTANT

Damaged finish due to heating with fossil fuel heaters

Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

IMPORTANT

Pin holes caused by application during rising temperature

If the Product is applied on porous substrates during rising temperature, pin holes may form from rising air.

1. Apply the Product during falling temperatures.

IMPORTANT

Inconsistent colouring due to colours from different control batch numbers

For consistent colour matching, make sure the Product is applied in each area from the same control batch numbers.

SMOOTH COATING

1. Pour the mixed Product onto the surface.
2. Apply the Product evenly over the surface with a medium-pile roller.

SEAL COAT FOR BROADCAST SURFACES

1. Pour the mixed Product onto the substrate. Note The consumption is specified in Application Information.
2. Spread the Product evenly over the surface with a squeegee.
3. Back-roll the surface in two directions at right angles with a medium-pile roller. Note Maintain a "wet edge" during application for a seamless finish.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

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.

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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Product Data Sheet

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