

PRODUCT DATA SHEET

Sikafloor®-405

1-part pigmented aliphatic polyurethane base coat

SIKA NZ
APPROVED
CONTRACTOR
ONLY

DESCRIPTION

Sikafloor®-405 is a one part, pigmented, moisture curing polyurethane resin coating.

USES

Sikafloor®-405 may only be used by experienced professionals.

The Product is used as a:

- Primer and wearing coat

The Product is used on the following substrates:

- Concrete
- Cementitious screeds
- Tiles

Please note:

- 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)
- Fast curing
- Non-yellowing
- Moisture-activated curing
- High elasticity
- Good resistance to UV exposure
- Good protection and weather resistance
- Impermeable to liquids
- Good slip resistance
- Good bond strength

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.

PRODUCT INFORMATION

Chemical Base	Polyurethane	
Packaging	15 L (19.5 kg)	
Shelf Life	6 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. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Appearance / Colour	Cured colour	RAL 1015
Density	1.30 kg/l	(EN ISO 2811-1)
Solid content by weight	~79%	(EN ISO 3251)

TECHNICAL INFORMATION

Tensile Strength	Cured 24 hours at +60 °C	~10 MPa (unreinforced film), ~17 MPa (with Reemat Premium)	(EN ISO 527-3)
Elongation at Break	Cured 24 hours at +60 °C	~570 % (unreinforced film), ~30 % (with Reemat Premium)	(EN ISO 527-3)

APPLICATION INFORMATION

Consumption	~0.4–1.45 kg/m ² per layer depending on the application. Refer to the respective System Data Sheet.		
Layer Thickness	Refer to the relevant System Data Sheet		
Product Temperature	Minimum	+2 °C	
	Maximum	+30 °C	
Ambient Air Temperature	Minimum	+2 °C	
	Maximum	+30 °C	
Relative Air Humidity	Maximum	80 %	
	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	Minimum	+2 °C	
	Maximum	+30 °C	
Substrate Moisture Content	Substrate	Test method	Moisture content
	Cementitious substrates	Sika® Tramex moisture metre	≤ 6 %
	Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %
	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.		

Waiting Time / Overcoating

Before overcoating the Product, allow:

Substrate temperature	Minimum	Maximum
+10 °C	~24 hours	~7 days
+20 °C	~18 hours	~7 days
+30 °C	~12 hours	~7 days

IMPORTANT

Application of subsequent layers

Application of subsequent layers must take place within 7 days of the application of the Product. Any application outside of this time frame requires re-priming with Sika® Reactivation Primer. Refer to the relevant product data sheet.

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

Applied Product Ready for Use

Temperature	Surface dry	Through dry	Full cure
+20 °C / 50% r.h.	~6 hours	~10 hours	~18 hours
+2 °C / 75 % r.h.	~12 hour	~20 hours	~30 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.

FURTHER DOCUMENTS

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika® Method Statement: Mixing and application of flooring systems

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.

APPLICATION INSTRUCTIONS

IMPORTANT

Strictly follow installation and maintenance procedures

Strictly follow installation and maintenance procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

EQUIPMENT

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 (concrete / screed) 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 all 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

Temporary heating

If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For heating, use only electric powered warm air blower systems.

IMPORTANT

Pin holes

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

1. Apply the Product during falling temperatures.

PRIMER

1. Pour the Product onto the surface.
2. Apply the Product evenly over the surface with a brush, fleece roller or a squeegee.
3. Back roll the surface in two directions at right angles with a fleece roller.

ROLLER COATING

1. Pour the mixed Product onto the substrate.
Note: The consumption is specified in Application Information.
2. Back roll the surface in two directions at right angles with a short 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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