

PRODUCT DATA SHEET

Sikafloor[®]-406 T GR

1-part elastic polyurethane binder for stone carpet floors

DESCRIPTION

Sikafloor[®]-406 T GR is a one part, clear aliphatic, solvent containing, moisture curing polyurethane resin binder for horizontal surfaces.

USES

Sikafloor[®]-406 T GR may only be used by experienced professionals.

- The product can be used as a wearing coat (binder for stone carpet) and top coat for horizontal surfaces
- The Product is used on the following substrates:

- Concrete
- Cementitious screeds

For vertical surfaces, please refer to the Sikafloor[®]-406 T Vertical GR product data sheet.

Please note:

- The Product may only be used for exterior applications.

FEATURES

- Easy-to-use 1-Part technology
- Good weather & UV resistance
- Non yellowing
- Good mechanical resistance
- Moisture-activated curing
- Water vapor transmission

PRODUCT INFORMATION

Composition	Polyurethane
Packaging	5.0 l
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. Refer to the current Safety Data Sheet for information on safe handling and storage.
Density	0.95 – 1.05 kg/l (ISO 2811-1)
Solid content by mass	77 – 82 %

TECHNICAL INFORMATION

Shore D Hardness	40	(ISO R868)
Tensile strength	>25 N/mm ²	(ISO 527-3)
Tensile strain at break	>300 %	(ISO 527-3)
Water-vapour transmission rate	0.8	(ASTM E96 - Water Method)

SYSTEM INFORMATION

System structure	Primer	Wearing coat
	Sikafloor®-151 + Broadcast with suitable quartz sand or aggregates	Sikafloor®-406 T GR + aggregates mix

APPLICATION INFORMATION

Mixing ratio	Polyurethane Binder: Aggregates ~1 : 12.5 by weight		
	Sikafloor®-406 T GR should be 8% of the aggregate mix weight. Notes: Values may vary depending on the aggregate mix size.		
Consumption	Up to 4 – 8mm aggregates size.		
	Thickness (mm)	Aggregates (kg/m²)	
	6	14	
	8	18	
		Resin (kg/m²)	
		1.12	
		1.44	
	Notes: Values may vary depending of the aggregates mix size.		
Layer thickness	~X2 maximum aggregate size with minimum layer thickness 3 mm		
	Aggregate mix (mm)	Layer Thickness (mm)	
	0.8 – 1.2 & 1.6 – 2.5	~6	
	2 – 4	~8	
Material temperature	Maximum	+30 °C	
	Minimum	+5 °C	
Ambient air temperature	Maximum	+30 °C	
	Minimum	+5 °C	
Relative air humidity	Maximum	85 %	
	Minimum	35 – 45 % (at more than +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	+5 °C	
Substrate moisture content	Substrate	Test method	Moisture content
	Cementitious substrates	Sika® Tramex moisture meter	≤6 %
	Cementitious substrates	Calcium carbide method (CM-method)	≤4 %
	No rising moisture (ASTM D4263, polyethylene sheet)		
Pot Life	The material in opened containers should be applied 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 to overcoating

Before overcoating the Product, allow:

<u>Substrate temperature</u>	<u>Waiting time</u>
+25 °C / 55 % R.H.	minimum 24 hours

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

Applied product ready for use

<u>Temperature</u>	<u>Tack free</u>	<u>Foot traffic</u>
+5 °C / 85 % R.H	~24 hours	~72 hours
+25 °C / 55 % R.H	~12 hours	~24 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 DOCUMENTATION

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

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

REGULATION (EC) NO 1907/2006 - REACH

Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit www.sika.com/pu-training.



APPLICATION INSTRUCTIONS

IMPORTANT

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

APPLICATION EQUIPMENT

- Smoothing trowel
- Medium pile nylon roller

MIXING EQUIPMENT

- Electric single paddle mixer (300 to 400 rpm)

SUBSTRATE QUALITY

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm². 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. Start mixing the aggregate mix.
2. Gradually add the correct amount of Sikafloor® 406 T GR.
3. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
4. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

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

Pinholes

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

1. Apply the Product during falling temperatures.

EPOXY PRIMER

1. Begin by applying the Sikafloor®-151 epoxy primer as the first layer.
2. Broadcast the surface with suitable quartz sand or aggregates size (minimum 0.4 – 0.8 mm) depending on the chosen aggregate mix, over the wet primer.
3. Remove any excess.

Note: Refer to the Sikafloor®-151 product data sheet.

WEARING COAT - STONE CARPET BINDER

1. Pour all the mixed Product onto the substrate and spread it to the surface.
2. Smooth and compact the mix onto the surface.
3. Wet the trowel with smoothing agent for the final smoothing of the surface.

Note: The consumption is specified in Application Information.

Note: Use suitable tools to maintain the layer thickness

TOP COAT

If a seal coat or surface pore filler is required, after the curing process of the wearing coat is completed:

1. Apply 0.1 – 0.2 kg/m² Sikafloor®-406 T GR evenly over the surface with a squeegee or a medium pile roller.

CLEANING OF EQUIPMENT

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.

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