

PRODUCT DATA SHEET

Sikafloor®-416 MAT

1-PART, TRANSPARENT, ALIPHATIC PUR SEAL COAT



DESCRIPTION

Sikafloor®-416 MAT is an aliphatic, moisture triggered polyurethane that provides a tough, hard finish coat for the Sika® MonoFlex Systems range.

USES

Sikafloor®-416 MAT may only be used by experienced professionals.

- Seal coat, with and without Sikafloor Anti Slip Agent, for the Sikafloor® MonoFlex Premium Systems and Sikafloor® MonoFlex Fast Systems.
- Only for exterior application

CHARACTERISTICS / ADVANTAGES

- Moisture triggered
- Good UV and yellowing resistance
- Weather resistant
- Abrasion resistant
- Easy cleanable

APPROVALS / STANDARDS

- Liquid-applied waterproofing using kits based on polyurethane for use on roofs, terraces and balconies according to ETAG-005, ETA-13/0231 issued by Technical Assessment Body British Board of Agrément, Declaration of Performance 0208010301000000171148 / 1100000011148 / 1200000011148 / 1300000011148, certified by Factory Production Control Body 0836, and provided with the CE-marking.

PRODUCT INFORMATION

Chemical base	Polyurethane	
Packaging	5 litres (5.15 kg)	
Appearance / Colour	Transparent liquid	
Shelf life	12 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 +25 °C.	
Density	1.03 kg/l Density value at +23 °C.	(EN ISO 2811-1)
Solid content	58.7 % (by weight) / 52.9 % (by volume)	(EN ISO 3251)
Solid content by weight	~58.7 %	(EN ISO 3251)
Solid content by volume	~52.9 %	(EN ISO 3251)

TECHNICAL INFORMATION

Tensile Strength	~37 N/mm ² (24 h at 60 °C)	(EN ISO 527-1/EN ISO 527-3)
Elongation at Break	~34 % (24 h at 60 °C)	(EN ISO 527-1/EN ISO 527-3)
Chemical Resistance	Resistant to many alkali and hydrocarbon based reagents, including conc. ammonia, sodium hydroxide (10 %) and petrol. Avoid contact with acids. Contact Sika technical service for specific information.	

SYSTEM INFORMATION

Systems	Please refer to the System Data Sheet of:	
	Sikafloor® MonoFlex MB-56	Broadcast, 1-component, fast curing, crack bridging and waterproofing, decorative floor covering
	Sikafloor® MonoFlex MB-57	Broadcast, 1-component, fast curing, crack bridging and waterproofing, quartz finish floor covering
	Sikafloor® MonoFlex MB-29	Broadcast, 1-component, fast curing, crack bridging, floor covering

APPLICATION INFORMATION

Consumption	~0.1–0.3 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®-416 MAT on Sikafloor®-405 allow: 20 °C/50 % R.H. through cure at a minimum of 18 hours. 2 °C through cure at 30 hours. Before applying Sikafloor®-416 MAT on the coloured quartz screed made out of Sikafloor®-406 Sikafloor® allow: 20 °C/50 % R.H. through cure at a minimum of 8 hours. 2 °C through cure at 24 hours.	
Applied Product Ready for Use	Tack free	~ 4 hours (20 °C and 50 % RH)
	Foot trafficable:	~ 12 hours (20 °C and 50 % RH)
	Note: Lower temperatures and humidity will retard drying, leave 24 hours before allowing foot traffic.	

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®-416 MAT 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. The product can be applied by using a short pile roller. Ensure that the roller is kept saturated with product and do not allow it to dry out during application.

CLEANING OF TOOLS

Removal of fresh remnants from tools and application equipment can be carried out using Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

FURTHER DOCUMENTS

Substrate quality & Preparation

Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application instructions

Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

LIMITATIONS

- Prior to overcoating with Sikafloor®-416 MAT, the base coats must have cured tack-free.
- Do not use for interior applications.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- 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. 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/CE, 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®-416 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.

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