

PRODUCT DATA SHEET

Sikafloor®-420

1-PART PUR HIGHLY ELASTIC COATING

PRODUCT DESCRIPTION

Sikafloor®-420 is a one part, elastic, low solvent containing, low odour, UV resistant, coloured, moisture-triggered polyurethane resin coating.

USES

Sikafloor®-420 may only be used by experienced professionals.

- Smooth or slip resistant, UV resistant, waterproof, abrasion resistant coating for concrete and cementitious screed substrates
- For light to medium mechanical exposure
- For balconies, terraces, footbridges, stairways etc.

CHARACTERISTICS / ADVANTAGES

- Low odour formulation
- High solids
- Moisture-triggered
- UV resistant, non-yellowing
- Weather resistant
- Abrasion resistant with normal use
- Slip resistant surfaces are possible
- A range of finishes are available

APPROVALS / STANDARDS

- Classification of reaction to fire performance in accordance with EN 13501-1:2007+A1:2009. Reaction to fire classification: DfI-s1
- Coating for concrete protection according to the requirements of the EN 13813:2002, DoP 98311139 and provided with the CE-mark.
- Ignitability of building products subjected to direct impingement of flame. Part 2: Single flame source test. Passed.
- Odour concentration (EN 13725:2003), tested at Odournet GmbH in Germany.

PRODUCT INFORMATION

Chemical Base	Elastomeric Aliphatic Polyurethane	
Packaging	5 litre (6.45 kilos), 15 litre (19.35 kilos) units	
Appearance / Colour	Masterbatch: Coloured liquid. White. Tinted product: Coloured liquid. Broad colour range available.	
Shelf Life	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.	
Storage Conditions	12 months from date of production	
Density	~ 1.29 kg/l	(DIN EN ISO 2811-11)
Solid content by weight	~89.3 %	
Solid content by volume	~85.9 %	

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Abrasion Resistance	~23 mg (CS 10/1000 rev	~23 mg (CS 10/1000 revolutions)		(BS EN ISO 7784-2:2006	
Tensile Strength	~5.00 MPa	~5.00 MPa		O 527-3	
Elongation at Break	At +23°C: At -23°C:	~ 200% ~ 100%	(EN IS	O 527-3	
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance chart. Attention: Wine, coffee, some leaves and flower petals etc. may cause surface discolouration. This will have no effect on the product performance and durability.				
SYSTEM INFORMATION					
Systems	Please refer to the System Data Sheet of: Sikafloor® MonoFlex MB-25 Broadcast, 1 Component Polyuret ane, Crack Bridging, Floor Finish				
APPLICATION INFORMAT	ION				
Consumption	0.3 - 1.2 kg/m²/mm depending on the application. Please refer to the respective System Data Sheet.				
Ambient Air Temperature	*+5°C min. / +30°C max. * Lower temperature and humidity will prolong curing times. Ensure the floor is protected from foot traffic until adequately cured.				
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	*+5°C min. / +30°C max. * Lower temperature and humidity will prolong curing times. Ensure the floor is protected from foot traffic until adequately cured.				
Substrate Moisture Content	<4% pbw moisture content. Test method: Sika®-Tramex meter, 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 1-2 hours. High temperatures and high air humidity will accelerate curing significantly				
Curing Time	Before overcoating Sikafloor®-420 allow:				
		24 hours 16 hours 12 hours and will be af	Maximum 14 days 14 days 7 days ffected by changing ambient cor		
	ing, Sikafloor®-420 can b	e overworke	elative humidity. After thorough ed with itself at any time, assum ontamination is avoided.		





Applied Product Ready for Use

Rain resistant	Foot traffic	Full cure
~ 15 hours	~ 1 - 2 days*	~ 7 - 14 days*
~ 5 hours	~ 24 hours*	~ 5 - 9 days*
~ 3 hours	~ 18 hours*	~ 3 - 5 days*
ccelerator: Rain resistant	Foot traffic	Full cure
	~ 15 hours ~ 5 hours ~ 3 hours	~ 15 hours

~ 3 hours*

+20°C

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

Prior to use stir Sikafloor®-420 mechanically for 3 minutes. If required the Extender T should be added into the Sikafloor®-420 until a uniform mix has been achieved. Over mixing must be avoided to minimise air entrainment.

Mixing Tools:

Sikafloor®-420 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.

Sikafloor®-420 can be applied by brush, roller or squeegee. At higher coverage rates Sikafloor®-420 may be poured and spread evenly with a trowel.

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

Substrate quality & Preparation

Please refer to Sika Information Manual: "EVALU-ATION AND PREPARATION OF SURFACES FOR FLOOR-ING SYSTEMS".

Application instructions

Please refer to Sika Information Manual: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

LIMITATIONS

~ 1 hours

 Do not apply Sikafloor®-420 on substrates with rising moisture.

~ 3 - 5 days*

- Freshly applied Sikafloor®-420 must be protected from damp, condensation and water for at least 24 hours.
- Prior to overcoating with Sikafloor®-420, the priming coats must have cured tack-free.
- Do not overcoat Sikafloor 420 with Sikafloor 410
- Do not use for interior applications.
- Always apply during falling temperatures. If applied during rising temperatures "pin holing" may occur from rising air.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-420 in each area is applied from the same control batch numbers
- Under certain conditions, under floor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- 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.

VALUE BASE

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.

BUILDING TRUST

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^{*}Strongly influenced by layer thickness

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 (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-420 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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