BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® TC 681

2-part polyaspartic top coat, pigmented, glossy, fast and low temperature curing, UV-stable, for car parking systems and broadcasted coatings

DESCRIPTION

Sikafloor® TC 681 is a two component, pigmented, fast and low temperature curing, UV-stable, non yellowing, elastic top coat with glossy finish on broadcasted coatings. Sikafloor® TC 681 contains solvents.

USES

Sikafloor® TC 681 is primarily intended as the top coat in car park deck applications where its rapid cure, low dirt retention, excellent UV resistance and excellent wear properties can be exploited.

CHARACTERISTICS / ADVANTAGES

- rapid cure
- short “ready for traffic” times
- excellent mechanical properties
- hard wearing
- elastic
- crack bridging
- excellent UV and weather resistance
- attractive appearance
- low dirty retention
- easy to clean and maintain

CERTIFICATES AND TEST REPORTS

CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material.
CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating.

PRODUCT INFORMATION

Composition	Polyaspartic
Packaging	Sikafloor® TC 681 is supplied in 28 kg working packs.
Colour	RAL 7032, RAL 7035, RAL 7040.
Shelf Life	Under the specified storage conditions the material has a shelf life of 12 months. For maximum shelf life under these conditions see "Best before" label.
Storage Conditions	Store in original containers under dry conditions at a temperature between 15–25 °C. Do not expose to direct sunlight.

Density	Part A	1.74 g/cm³
	Part B	1.07 g/cm³
Solid content by weight	94%	

TECHNICAL INFORMATION

Tensile Strength	Cured 28 days at 23 °C	20 N/mm²	
Elongation at Break	Cured 28 days at 23 °C	180 %	
Tear Strength	Cured 28 days at 23 °C	70 N/mm²	(DIN 53515)

APPLICATION INFORMATION

Mixing Ratio	100 : 67	
Consumption	Approx. 0.6 –0.9 kg/m² depending on the size and distribution of the aggregate used in the wear coat.	
Ambient Air Temperature	Min.	8 °C
	Max.	30 °C
Relative Air Humidity	Max.	80 %
Substrate Temperature	Min.	8 °C
	Max.	30 °C
Pot Life	at 23 °C	25 min.
Curing Time	Ready for pedestrian traffic at 23 °C	4 h
	Ready for car traffic at 23 °C	7 h
	Fully cured at 23 °C	7 d

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

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The coating to which Sikafloor® TC 681 is to be applied to should be clean and dry and free of any substances which may impair adhesion. Application should take place within the re-coat intervals of the coating to which it is to be applied.

MIXING

Sikafloor® TC 681 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both the A and B components to a temperature of approximately 15–25 °C.
Pour the entire contents of Part B into the container of Part A. DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a low speed (approx. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer bladed fully submersed in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER. After proper mixing to a homogeneous consistency, pour the mixed Parts A and B into a clean container and mix for a further minute.

APPLICATION

Sikafloor® TC 681 is poured onto the prepared substrate and spread with a notched trowel, or spreader and back rolled using a medium nap lambs wool roller. The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum during application and for at least 2 hours after application. Following application the material should be protected from direct contact with water for approx. 2 hours. The temperature of the substrate must be at least 3 K above the dew point both during the application and for at least 2 hours after application (at 15 °C).

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.

Sika Kimia Sdn. Bhd.
Lot 689, Nilai Industrial Estate,
71800 Nilai, Negeri Sembilan D.K.
Malaysia
Phone: +606-7991762
e-mail: info@my.sika.com
Website: www.sika.com.my