

PRODUCT DATA SHEET

Sikafloor® TC 680

(formerly MSeal TC 680)

Two-part polyaspartic, UV-stable, weather resistant, solvent-free, pigmented, glossy, fast and low temperature curing top coat for car parking systems and broadcasted coatings

PRODUCT DESCRIPTION

Sikafloor® TC 680 is a two-part polyaspartic, UV stable, weather resistant, solvent-free, fast and low temperature curing top coat, which is applied manually. Once cured, it provides an easy to clean, robust, glossy surface with attractive appearance.

USES

Sikafloor® TC 680 may only be used by experienced professionals.

Sikafloor® TC 680 is primarily used as the top coat in car park deck where a rapid cure, fast return to traffic and excellent resistance is required for indoor and outdoor applications. Sikafloor® TC 680 is resistant against plasticizers and antioxidants during long parking periods.

CHARACTERISTICS / ADVANTAGES

- rapid cure
- resistant against plasticizers and antioxidants
- excellent mechanical properties
- short „ready for traffic“ times
- hard wearing
- robust
- crack bridging
- excellent UV- and weather resistance
- attractive appearance
- low dirty retention
- easy to clean and maintain

APPROVALS / STANDARDS

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.

PRODUCT INFORMATION

Chemical Base	Polyaspartic
Packaging	Sikafloor® TC 680 is supplied in 30 kg working packs.
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.
Colour	Sikafloor® TC 680 is available in following colours: approx. RAL 7016, 7030, 7032, 7035, 7038, 7040, 7042, 7043, 7047, 9010. For further colours consult your local sales office.

Density	Part A	1,46 g/cm ³
	Part B	1,13 g/cm ³
	Mixed product	1,37 g/cm ³

APPLICATION INFORMATION

Mixing Ratio	100 : 40 (part A : part B)		
Consumption	Approx. 0.6 – 0.9 kg/m ² depending on the size and distribution of the aggregate used in the wear coat.		
Ambient Air Temperature	Min.	10°C	
	Max.	30°C	
Relative Air Humidity	Max.	80%	
Substrate Temperature	Min.	10°C	
	Max.	30°C	
Pot Life	at 10°C	approx. 30 - 40 min	
	at 20°C	approx. 15 - 25 min	
	at 30°C	approx. 8 - 12 min	
Curing Time	at 10°C	10 d	
	at 20°C	7 d	
	at 30°C	3 d	
Waiting Time / Overcoating	Temperature	Minimum	Maximum
	At 10°C	approx. 4 - 8 h	48
	At 20°C	approx. 2 - 4 h	24
	At 30°C	approx. 1 - 2 h	12

VALUE BASE

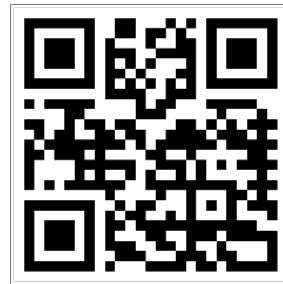
All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

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

SUBSTRATE PREPARATION

The coating to which Sikafloor® TC 680 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 680 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 10 to 30°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 submerged 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 680 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.

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