BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® M 869

2-Part PU membrane and wear coat for car park deck coatings, highly elastic

PRODUCT DESCRIPTION

Sikafloor® M 869 is a hand applied, two-component, self-levelling polyurethane based, elastomeric coating.

USES

Sikafloor® M 869 forms the waterproofing membrane in those car park deck waterproofing systems which meet the requirements of the German OS 11 (OS F) specification for coatings with enhanced dynamic crack bridging properties capable of bearing pedestrian and vehicular traffic according to the Guidelines for the Protection and Repair of Concrete Components as issued by the German Committee on Reinforced Concrete. In addition, Sikafloor® M 869 can be used in other systems and combinations in waterproofing applications.

CHARACTERISTICS / ADVANTAGES

- excellent crack bridging capability
- useable as membrane and wear coat
- tenacious hold to broadcast aggregate
- withstands loads imposed by traffic
- resistant to fuels, battery acid and hydraulic oils

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
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

Chemical Base	Polyurethane
Packaging	Sikafloor® M 869 is supplied in 30 kg working packs.
Colour	Sikafloor® M 869 is available in grey (approx. RAL 7032).
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 and keep the temperatures within the abovementioned range.
Density	Cured 28 days at 23°C — 1.20 g/cm³

TECHNICAL INFORMATION

Shore A Hardness	Cured 28 days at 23°C	72
Tensile Strength	Cured 28 days at 23°C	6.0 N/mm²
	(DIN 53504)	
Elongation at Break	Cured 28 days at 23°C	800%
Tear Strength	Cured 28 days at 23°C	20 N/mm²

APPLICATION INFORMATION

Mixing Ratio	1 : 2	
Consumption	For application specific consumptions, see individual System Data Sheets.	
Ambient Air Temperature	Min.	5°C
	Max.	30°C
Relative Air Humidity	Max.	80%
Substrate Temperature	Min.	5°C
	Max.	30°C
Open Time	at 10°C	40 min
	at 20°C	30 min
	at 30°C	20 min

Waiting Time / Overcoating	Temperature	Minimum	Maximum
	at 10°C	12 hours	3 days
	at 20°C	9 hours	2 days
	at 30°C	6 hours	1 day

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

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) - 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 preparation of the substrate and the use of the appropriate primer are of paramount importance. All surfaces to which Sikafloor® M 869 is applied should be sound, clean and dry and free from oil or grease, loose particles and any other substances which may impair adhesion. For substrate pre-treatment prior to the primer application see primer technical data sheet.

MIXING

Sikafloor® M 869 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 to 25 °C.
Pour the entire contents of Part A into the container of Part B. 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® M 869 is poured onto the prepared substrate and spread with a notched trowel or spreader (rubber or steel).
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 temperatures should not fall below the minimum. After application, the material should be protected from direct contact with water. The temperature of the substrate must be at least 3 K above the dew point both during and for at least 9 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 LIMITED
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited