

PRODUCT DATA SHEET

Sikafloor® TC 943

(formerly MTop TC 943)

Two-part, solvent-free, pigmented, top-coat based on Xolutec technology with exceptional scratch resistance for hard wearing solutions

DESCRIPTION

Sikafloor® TC 943 is a two-part, solvent-free, pigmented top-coat based on Xolutec-technology, producing a light stable, tough and durable surface with a lightly structured satin-mat finish that has exceptional scratch, impact and wear resistance.

USES

Sikafloor® TC 943 is designed for use as a light stable wear resistant finish for rigid and semi-rigid body coats.

FEATURES

- Based on Xolutec technology
- Structured finish improves slip resistance
- Excellent scratch and impact resistance
- Good cleanability allows easy maintenance
- Improves scratch resistance
- UV-stable
- Easy to clean: low maintenance costs
- High durability
- Durable aesthetics
- Certified for Clean Rooms

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

PRODUCT INFORMATION

Packaging	Sikafloor® TC 943 is supplied in 10 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 and a temperature between 15–25°C. Do not expose to direct sunlight. Protect from frost.		
Colour	Sikafloor® TC 943 is available in a wide range of RAL colours. For more information, please consult your local sales office.		
Density	Part A	1,36 g/cm ³	(EN ISO 2811-1)
	Part B	1,22 g/cm ³	
	Mixed product	1,25 g/cm ³	
Solid content by mass	93,9%		

TECHNICAL INFORMATION

Abrasion resistance	Cured 28 days at +23°C	30 mg (CS10 / 1000 g / 1000 cycles)	(EN ISO 5470-1)
Gloss level	satin - mat		

APPLICATION INFORMATION

Mixing ratio	3 : 7		
Consumption	0,12 kg/m ² Caution: Please do not dilute the top coat with water. Do not exceed the maximum consumption.		
Ambient air temperature	Min.	10°C	
	Max.	30°C	
Relative air humidity	Min.	30%	
	Max.	90%	
Substrate temperature	Min.	10°C	
	Max.	30°C	
Pot Life	at 20°C	30 min.	
Curing time	Light pedestrian traffic at 23°C / 50% r.h.	24 h	
	Fully cured at 23°C / 50% r.h.	7 d	
Waiting time to overcoating	Min. at 23°C / 50% r.h.	20 h	
	Max. at 23°C / 50% r.h.	48 h	

BASIS OF PRODUCT DATA

All technical data stated in this 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 943 is to be applied must be clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion. The substrate temperature should be at least 3K above the dew point.

MIXING

Sikafloor® TC 943 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately +15 to +25 °C. Pre-mix part A and part B separately. Pour the entire contents of part A into part B, scratching the sides of the pail with a spatula or scraper. **DO NOT MIX BY HAND.**

Mix with a mechanical drill and paddle at a low speed (ca. 300 rpm) for 2 minutes. The diameter of the paddle (d) should be higher than half the diameter (D) of the bucket ($d > D/2$).

Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. **DO NOT WORK OUT OF THE CONTAINER USED FOR MIXING.** After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute.

APPLICATION

It is recommended to apply first corners, edges, etc. and in general those areas with a more difficult access with a small roller or brush. It is important to avoid dry edges by always working wet in wet when overlapping otherwise roller marks will be visible in the final finish. The application method consists in 3 steps. Immediately after the mixing is finished, pour Sikafloor® TC 943 directly onto the floor and spread using a rubber squeegee. **DO NOT ALLOW MATERIAL TO STAND IN THE BUCKET.** Spread in the same direction to ease the organization during the following steps of the process. Afterwards, spread the material with an 11 mm length hair microfiber roller (50 cm width), perpendicular to the direction of squeegee application, ensure all areas are covered and that there is a uniform appearance. After that, finish the application using again an 11 mm length hair microfiber roller (50 cm width) in the opposite direction to the previous step finishing always in the same direction starting from the same edge.

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For more information, please refer to the Sikafloor® TC 943 application manual.

Sikafloor® TC 943 cures with a light and characteristic structure. 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. After application, the material should be protected from direct contact with water for approx. 24h (at +15 °C).

Note: Because of the good cleaning ability of Sikafloor® TC 943, the use and application of an initial care is not required.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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