

## PRODUCT DATA SHEET

# Sikafloor®-1705

(formerly MTop 1705)

### WATER DISPERSED EPOXY RESIN COATING

#### DESCRIPTION

Sikafloor®-1705 is durable coloured coating based on an advanced water-dispersed, two-part epoxy resin. It has been specially formulated to provide a durable coating system.

#### USES

Sikafloor®-1705 can be applied on a wide variety of substrates such as concrete, masonry, etc. It is recommended as a protective coating on floors and walls where both high levels of aesthetics and chemical resistance are desired. Applications include:

- wall coating in pharmaceutical and other areas that must be easy to clean;
- protection of floors against mild acids, alkalis, mineral oils, etc;
- road tunnel wall coatings to improve the light conditions, to facilitate easy maintenance and to protect concrete against chemicals / pollutants;
- tunnel segment protection coating;
- curing membrane for concrete;
- light traffic areas in industrial buildings and warehouses.

#### CHARACTERISTICS / ADVANTAGES

- Low odour and low toxicity – Safe.
- Resistant to attack by chemicals – Lowers maintenance costs.
- Water vapour permeable – Allows surface to breathe, preventing build-up of moisture in the structure.
- Nonflammable – Advantage in areas prone to fire hazard.
- Tools can be cleaned with water – environmentally friendly and cost saving

#### PRODUCT INFORMATION

<b>Packaging</b>	Part A	5 kg	
	Part B	5 kg	
<b>Appearance / Colour</b>	<b>Components</b>	<b>Supply form</b>	<b>Colour</b>
	Part A	Liquid	Coloured
	Part B	Liquid	Amber
<b>Shelf Life</b>	12 months from date of production		
<b>Storage Conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C.		

Density	Part A	1.60 ± 0.05 kg/L
	Part B	1.00 - 1.02 kg/L

## APPLICATION INFORMATION

Mixing Ratio	A:B	1:1
Yield	0.2 - 0.3 kg/m <sup>2</sup> at 0.15 wft	
Product Temperature	Min +10 °C	
Ambient Air Temperature	Application Temperature	
	<b>Min</b> 10°C	<b>Max</b> 35°C
Substrate Temperature	Min +10°C	
Pot Life	30 min at 30 °C	

## SYSTEM INFORMATION

Systems	The first coat can be diluted up to 5% clean water by weight and applied with a roller. The primed area should be protected from contamination for 24 hours or until tack free prior to the subsequent coat (s) being applied. Depending on the surface finish and colour, up to 3 coats may be required to achieve the required colour density. After the final coat the surface should be protected from foot traffic for at least 24 hours. Full traffic load should be delayed until at least 72 hours after the final coat.		
	<b>Primer</b>	<b>1st Coat</b>	<b>2nd Coat</b>
	Diluted with water - 5% by weight	0.15 mm thickness (wft)	0.15 mm thickness (wft)

## 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.

## LIMITATIONS

As water dispersed epoxy formulations show no clear signs of end of pot life such as increase viscosity or an exothermic reaction, it is possible that the material be applied after the expiry of the pot life. This must be avoided because material applied past pot life will develop a different colour from those applied within pot life. Therefore, no material should be applied after the material's pot life as indicated in the preceding table.

## 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.

## SUBSTRATE QUALITY

Minimum adhesion strength of pre-treated substrate	> 1.5 N/mm <sup>2</sup>
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## SUBSTRATE PREPARATION

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound direct tensile strength of more than 1.5 MPa, clean, and free from laitance, loose particles, oil and grease, old coatings, curing compounds or any other contaminants.

Remove oil or grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds before mechanical preparation. Cement laitance, loose particles, mould release agents, curing membranes and other contaminants must be removed from the surface by shot-blasting, grinding or scarifying followed by vacuum cleaning.

Protect walls and columns against resin splashes using masking tape and polythene sheeting.

## MIXING

Sikafloor®-1705 is supplied in two pre-weighted parts resin and hardener. No additions or omissions are required.

Open Part A and empty Part B to Part A and mix homogeneously for at least 2 – 3 minutes using a mechanical stirrer. A 5% by weight water can be added for first coat.

Mixed epoxy must be processed within the pot life. Mixed epoxy will cure much faster in hot weather. Large batches of mixed epoxy will cure faster than in small batches. Always keep the mixing time the same for all batches to ensure a uniform consistency when product is applied.

## APPLICATION

Apply using spray, paint-roller, brush or airless spray.

## CURING TREATMENT

Temperature for curing

Min	Max
+10 °C	+ 35 °C

## MAINTENANCE

### CLEANING

Clean tools using water and rags before the resin system hardens. Hardened material can only be removed mechanically.

## 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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