

## PRODUCT DATA SHEET

# Sikafloor® TC 257

(formerly MSeal TC 257)

### 2 PART POLYURETHANE UV RESISTANT PROTECTIVE TRAFFIC COATING

#### DESCRIPTION

Sikafloor® TC 257 is a two-component, hardwearing, pigmented, aliphatic polyurethane coating, designed for application in heavily trafficked areas. It provides a UV-resistant, hard-elastic surface resistant to chemicals and abrasion.  
Suitable for use in hot and tropical climatic conditions.

#### USES

The high abrasion resistance of Sikafloor® TC 257 combined with its elasticity makes it suitable for use in car parks both indoors and outdoor. Sikafloor® TC 257 may be used in the following applications:

- Pedestrian walk ways
- Light engineering workshops
- Car parks
- Vehicle ramps and traffic aisles

#### CHARACTERISTICS / ADVANTAGES

- Excellent impact and abrasion resistance
- Tough elastic
- UV and weather resistant
- Good chemical and oil resistance
- Non-yellowing
- Gloss finish

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Polyurethane resin
<b>Packaging</b>	22.5 kg (18 L) units (Part A + Part B)
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	Store in a dry area in original sealed packaging at temperatures between +5°C and +30°C. Protect from direct sunlight, heat and moisture.
<b>Colour</b>	Standard colours: Basalt Grey, Black Grey, May Green, Oxide Red, Brilliant Blue, Light Grey, Traffic Grey, Reseda Green Please request local Sika representative for standard colour chart. Other colors are available on request.
<b>Density</b>	Mixed resin: ~1.25 g/l (at 25°C), may vary with colour
<b>Solid content by weight</b>	> 70 %, may vary with colour

## TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	~50 mg (CS17 / 1000 g / 1000 cycles)	(ASTM C957)
<b>Tensile Strength</b>	≥ 12 N/mm <sup>2</sup>	(ASTM D412)
<b>Elongation at Break</b>	Elongation: ~30 %	(ASTM D412)
<b>Tensile Adhesion Strength</b>	≥ 2.0 N/mm <sup>2</sup> (or failure in concrete)	(ASTM D4541)
<b>Tear Strength</b>	~40 kN/m	(ASTM D1004)
<b>Chemical Resistance</b>	Sikafloor® TC 257 is resistant to acids and alkalis of medium concentrations, mineral oil products and solvents. For more details, contact Sika's sales representative.	

## SYSTEM INFORMATION

<b>Systems</b>	Suitable as top seal coat for different flooring base coats. For UV exposed areas the use of Sikafloor® TC 257 as a seal coat is highly recommended. For more details, contact Sika's sales representative.
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## APPLICATION INFORMATION

<b>Consumption</b>	From 0.25 kg/m <sup>2</sup> per coat, depending on the system, surface profile (roughness), exposure and area of application. Note: These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc..
<b>Ambient Air Temperature</b>	+10°C min. / +35°C max.
<b>Relative Air Humidity</b>	80 % r.h. max.
<b>Dew Point</b>	Beware of condensation! The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.
<b>Pot Life</b>	~60 min at 25°C (ASTM D2471)
<b>Curing Time</b>	Foot traffic: ~48 hours at 25°C (initial cure) Time is approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Refer to PDS of relevant base coat for more information.
<b>Tack Free Time</b>	~2 h at 25°C Time is approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

## 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

- Freshly applied Sikafloor® TC 257 must be protected from damp, condensation and water for at least 24 hours.
- Sikafloor® TC 257 applied at different thicknesses can lead to different appearance and finish.

- When applied in exposed areas e.g. on direct sunlight or exposed to high winds, quicker drying may be expected due to fast solvent release, which may lead to reduced working (open) time.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure Sikafloor® TC 257 in each area is applied from the same control batch numbers.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull off strength shall not be less than 1.5 N/mm<sup>2</sup>. If in doubt apply a test area first.

Suitable primer has to be applied on concrete substrate prior to application of Sikafloor® TC 257. With the addition of Sikafloor® SR 2 or Sikafloor® SR 3 (slip resistant aggregates) between the coats, anti-slip resistant applications can be achieved.

### MIXING

Mix full units only. Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over-mixing must be avoided to minimise air entrainment.

### APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point. As a seal coat, the product can be applied by roller or squeegee and then back-rolled (crosswise) with a short-piled roller.

Apply a single coat or as a multi coat sandwich system incorporating aggregates to give a slip resistant finish. When applying as a top coat or part of a multi coat system, do not exceed the maximum overcoating times of the previous coating.

### CLEANING OF TOOLS

Clean all tools and application equipment with suitable thinner (Xylene / MEK / Acetone), immediately after use. Hardened and/or cured material can only be removed mechanically.

## MAINTENANCE

If a maintenance coat has to be applied, thoroughly wash the existing Sikafloor® TC 257. Allow to dry, then immediately prior to overcoating, wipe the surface with a cloth dampened with a suitable thinner (Xylene / MEK / Acetone).

## 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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#### Product Data Sheet

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