BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® TC 257

(formerly MSeal TC 257)

TWO-COMPONENT POLYURETHANE UV-RESISTANT PROTECTIVE TRAFFIC COATING

DESCRIPTION

Sikafloor® TC 257 is a two-component, hard-wearing, pigmented polyurethane coating designed for application in heavily trafficked areas. It provides a UV-resistant, hard-elastic surface with resistance to chemicals and abrasion.

USES

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

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

FEATURES

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

PRODUCT INFORMATION

Composition	Polyurethane resin
Packaging	Sikafloor® TC 257 is supplied in prepackaged 22.5 kg (18 L) units: Component A 20.25 kg Component B 2.25 kg
Colour	Available in a range of colours. Please contact your local Sika representative for the available colour options.
Shelf life	Up to 12 months from the date of production, when stored properly in the original, unopened and undamaged packaging in accordance with the storage instructions.
Storage conditions	Store in the original, unopened and undamaged packaging in cool, dry conditions between +5 °C and +35 °C. Protect from direct sunlight, frost and rainfall. Store clear of the ground on pallets and avoid excessive compaction. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice, consult Sika Technical Services Department.

Density	Mixed resin: ~1.25 g/l (at 25°C), may vary with colour
Solid content by mass	> 70 %, may vary with colour

TECHNICAL INFORMATION

Abrasion resistance	~50 mg (CS17 / 1000 g / 1000 cycles)	(ASTM C957)
Elongation	>30 %	(ASTM D412)
Tensile adhesion strength	≥ 2.0 N/mm² (or failure in concrete)	(ASTM D4541)
Tear strength	~40 kN/m	(ASTM D1004)
Chemical resistance	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.	

APPLICATION INFORMATION

Consumption	From 0.25 kg/m² 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..
Ambient air temperature	+10°C min. / +35°C max.
Relative air humidity	80 % r.h. max.
Dew point	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.
Pot Life	~60 min at 25°C (ASTM D2471)
Curing time	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.
Tack free time	~2 h at 25°C Time is approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

SYSTEM INFORMATION

Systems	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 additional information, please contact Sika's Technical Department.

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.

FURTHER DOCUMENTATION

- Substrate Quality & Preparation: Please refer to Sika Method Statement: “EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS”.
- Application Instructions: Please refer to Sika Method Statement: “MIXING & APPLICATION OF FLOORING SYSTEMS”.
- System Method Statement

IMPORTANT CONSIDERATIONS

- 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 differences in appearance and finish.
- When applied in exposed areas, e.g. in direct sunlight or high winds, faster drying may be expected due to rapid solvent release, which may lead to reduced working time.
- If heating is required, do not use gas, oil, paraffin or other fossil-fuel heaters, as these produce carbon dioxide and water vapour that may adversely affect the finish. Use electrically powered warm-air blower systems.
- Incorrect assessment and treatment of cracks may lead to reduced service life and reflective cracking.
- For consistent colour matching, ensure that Sikafloor® TC 257 used in each area is from the same batch.

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. 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/mm². If in doubt, apply a test area first.
A suitable primer must be applied on concrete substrates prior to application of Sikafloor® TC 257. With the addition of slip-resistant aggregates between the coats, anti-slip resistant applications can be achieved. Contact Sika Representative for more details.

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 the materials into another container and mix again to achieve a consistent mix. Over-mixing must be avoided to minimise air entrainment.

Sika Egypt
1st Industrial Zone (A)
Section #10, Block 13035
El Obour City, Egypt
TEL: +202 44810580
FAX: +202 44810459
egy.sika.com

APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point.
As a seal coat, apply Sikafloor® TC 257 using a roller or squeegee, then back-roll crosswise using a short-pile 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 EQUIPMENT

Clean all tools and application equipment with a suitable thinner immediately after use. Hardened and/or cured material can only be removed mechanically.

MAINTENANCE INSTRUCTIONS

If a maintenance coat has to be applied, thoroughly wash the existing Sikafloor® TC 257. Allow to dry, then immediately before overcoating, wipe the surface with a cloth dampened with a suitable thinner.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.