

PRODUCT DATA SHEET

Sikafloor® TC 257 SA

2 Part acrylic aliphatic polyurethane UV resistant protective traffic coating

DESCRIPTION

Sikafloor® TC 257 SA is a two-component, hardwearing, pigmented, acrylic 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 SA combined with its elasticity makes it suitable for use in car parks both indoors and outdoor.

Sikafloor® TC 257 SA may be used in the following applications:

- Pedestrian walk ways
- Light engineering workshops
- Car parks
- Vehicle ramps and traffic aisles
- UV resistant top coat for epoxy, polyurethane and polyurea coatings in non-submerged conditions.

FEATURES

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

SUSTAINABILITY

- Complies to emission test as per CDPH Method Version 1.2
- Volatile Organic Compound (VOC) content within the limit as per SCAQMD Rule 1113 test method

PRODUCT INFORMATION

Packaging	20 Kg units (Part A + Part B)
Colour	Available in various color shades, please request Sika sales representative for color chart.
Shelf life	12 months from date of production
Storage conditions	Store in a dry area in original sealed packaging at temperatures between +5°C and +30°C. Protect from direct sunlight, heat and moisture.
Density	~ 1.28 Kg/cm ³
Solid content	71 ± 3%

TECHNICAL INFORMATION

Abrasion resistance	~ 25 mg (CS17 / 1000 g / 1000 cycles)	ASTM D4060-25
Tensile strain at break	> 54%	ASTM D412-16
Tensile adhesion strength	≥ 2.0 N/mm ² (or failure in concrete)	ASTM D4541
Chemical resistance	Sikafloor® TC 257 SA is resistant to gasoline, motor oil, hydraulic fluid. For more details, contact Sika's sales representative.	

APPLICATION INFORMATION

Consumption	0.25 kg/m ² 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 % 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
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 a top coat for different flooring base coats. For UV exposed areas the use of Sikafloor® TC 257 SA as a top coat is highly recommended. For additional information, please contact Sika's Technical Department.
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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.

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".

IMPORTANT CONSIDERATIONS

- Freshly applied Sikafloor® TC 257 SA must be protected from damp, condensation and water for at least 24 hours.

- Sikafloor® TC 257 SA 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 CO₂ and H₂O 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 SA in each area is applied from the same control batch numbers.

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 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/mm². If in doubt apply a test area first.
- Suitable primer has to be applied on concrete substrate prior to application of Sikafloor® TC 257 SA. With the addition of Sikadur -507 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. 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 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 SA. Allow to dry, then immediately prior to overcoating, wipe the surface with a cloth dampened with a suitable thinner (Xylene / MEK / Acetone).

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.

Sika Gulf B.S.C. (c)

Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC

Sika UAE LLC (Branch)
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited

Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 9200 22167
Email: info@sa.sika.com
Web: gcc.sika.com

Sika MB LLC

Oman
Tel: +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS:
- Sika UAE LLC
- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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September 2026, Version 01.01
020812050030265043