

PRODUCT DATA SHEET

Sikafloor® TC 242

(formerly MSeal TC 242)

TOTAL SOLIDS, 2 PART, GLOSSY, AROMATIC PU COATING FOR TRAFFIC DECK APPLICATION

DESCRIPTION

Sikafloor® TC 242 is a two-component elastomeric, pigmented, polyurethane (PU) coating designed for application in trafficked areas.

Sikafloor® TC 242 aesthetically enhances and protect parking garage floors due to its pigmented, glossy and bright finish, minimum dirt pick-up and ease of cleaning properties. Its hard-elastic surface reduces slip-page and the squeaking noise from tires. When combined with its excellent chemical and abrasion resistance, Sikafloor® TC 242 is the ideal coating for car park decks.

Suitable for use in hot and tropical climatic conditions.

USES

- Sikafloor® TC 242 may only be used by experienced professionals.
- Sikafloor® TC 242 is used as part of the Sikafloor® MultiFlex polyurethane deck coating system range.
- On intermediate car park decks Sikafloor® TC 242 may be used as a top coat.
- On exposed decks, where UV resistance is required, Sikafloor® TC 242 is used as an intermediate coating layer topped with a UV resistant top coat as part of the systems.

CHARACTERISTICS / ADVANTAGES

- Excellent impact and abrasion resistance
- Glossy finish aesthetically enhancing car park
- Elastomeric
- Good chemical and oil resistance
- Minimum dirt pick-up and no tire mark retention
- Ease of cleaning
- Reduced noise due to tire movement
- Long service life
- Profiled finish for slip resistance

PRODUCT INFORMATION

Chemical Base	Aromatic Polyurethane (PU)
Packaging	Part A+B: 25 kg ready to mix units
Shelf Life	6 months from date of production
Storage Conditions	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight, heat and moisture. During high ambient temperature months, precondition the product in low temperature controlled environment before application.

Colour	Available in standard colours: Basalt Grey, Traffic Grey, Light Grey, Reseda Green and Oxide Red. Refer to colour chart. Other colours available upon request.	
Density	~1.45 g/l (mixed, at 25°C)	(ASTM D1475)
Solid content by weight	~100 % (mixed)	(ASTM D2369)

TECHNICAL INFORMATION

Tensile Strength	> 10 N/mm ² 7 days curing at 23°C, 50% R.H.	(ASTM D412)
Tensile Adhesion Strength	≥ 1.5 N/mm ² (or failure in concrete) Note: System build-up with suitable primer	(ASTM D4541)
Tear Strength	> 40 N/mm ² 7 days curing at 23°C, 50% R.H.	(ASTM D624)
Chemical Resistance	Resistant to acids and alkalis of medium concentrations, mineral oil products and solvents. Contact your local Sika Technical Services Representative for specific details.	

APPLICATION INFORMATION

Consumption	From 0.65 kg/m ² per coat. Please refer to relevant system data sheet and method statements for build-ups and coverage rates. This figure is theoretical and does not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage, etc.		
Relative Air Humidity	< 80 %		
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.		
Substrate Temperature	+15°C min. / +35°C max.		
Pot Life	Temperature	Pot Life	
	+23°C	~15 min	
	+35°C	~5 min	
	Note: Pot life will decrease with increased temperature		
Tack Free Time	~4 hours Note: At 25°C / 50% R.H. Times are approximate and will be affected by changing ambient conditions.		
Waiting Time / Overcoating	24 hours min. / 48 hours max. Note: At 25°C / 50% R.H. Times are approximate and will be affected by changing ambient conditions.		
Applied Product Ready for Use	Temperature and R.H:	Foot Traffic:	Light Vehicular Traffic: Full Cure:
	+25°C and 50 %	1 day	3 days 7 days
	Note: Times are approximate and will be affected by changing ambient conditions		

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

- Colour variations are un-avoidable due to raw materials. It can occur with quartz sand in bright shades such as yellow or orange where colour variations through the backfill may be visible. With these colours, the opacity is limited if the product is used as a top coat. Applying a reference area is strongly recommended.
- Under UV and weathering changes in colour are possible.
- For colour matching, ensure Sikafloor® TC 242 components are applied from the same control batch numbers.
- Do not apply Sikafloor® TC 242 on substrates with rising moisture.
- Do not apply on substrate surfaces with a slope >1 %.
- Freshly applied Sikafloor® TC 242 must be protected from damp, condensation and water for at least 24 hours. Uncured material reacts in contact with water (foaming). During application care must be taken that no 'sweat' drops into fresh Sikafloor® TC 242 (wear head and wrist bands).
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- In applications with sun light exposure use suitable seal coat.
- When applied during high ambient summer temperatures, with increased substrate temperature, pre-condition the product in low temperature environment (approx. +20°C for min. 24 hours), to increase the workability time and pot life.
- Under certain conditions, under floor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- If during application temporary 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.

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

For full application requirements please refer to relevant method statement.

SUBSTRATE QUALITY

Fully cured, with min. compressive strength of 25 N/mm². Pull-off strength shall not be less than 1.5 N/mm².

If in doubt apply a test area first.

SUBSTRATE PREPARATION

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. Suitable preparation includes light grit blasting, surface grinding etc. Surface defects should be repaired using Sikafloor®-2200, Sikafloor®-2200 ADH or other suitable repair compounds from the e.g. Sikadur® or SikaEmaco® range.

SUBSTRATE QUALITY / PRE-TREATMENT

Sikafloor® TC 242 requires priming. Based on the project requirements, the following primers shall be used:

Epoxy Primer for dense, non-porous substrates:

Sikafloor® P 650

Epoxy Primer for porous substrates:

Sikafloor® P 651

PU primer for porous and non-porous substrates:

Sikafloor® P 243

MIXING

Mix the Part A and Part B components of the Sikafloor® TC 242 together using a slow speed (400 rpm) drill with a spiral mixing head. Work the mixer round the mixing pail to ensure it scrapes the side and bottom of the pail. Pour the part mixed material into a clean pail and remix for a further 30 seconds.

APPLICATION

Apply by roller or squeegee to the primed tack free surface. Apply at a minimum recommended rate per coat, depending on the system build-up. Sikafloor® TC 242 can be applied as a single intermediate 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 242. Allow to dry, then immediately prior to overcoating, wipe the surface with a cloth dampened with a suitable solvent such as Xylene or MEK.

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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