BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-370 TG BC

3-part polyurethane, tough-elastic, low voc primer and self smoothing wearing coat

DESCRIPTION

Sikafloor®-370 TG BC is a three part, total solid, solvent free primer and self-smoothing polyurethane resin with tough-elastic properties. It is specially designed to impart high mechanical strength and good chemical resistance to car parking flooring systems

USES

Sikafloor®-370 TG BC may only be used by experienced professionals.

- Primer coat for concrete with excellent bonding prperties.
- Broadcast wearing course for car park decks, garage, aircraft hangar and loading ramps etc.

CHARACTERISTICS / ADVANTAGES

- Flexible and tough-elastic
- Good chemical and mechanical resistance
- Solvent-free
- Low VOC emissions
- Possible slip resistant surface
- Easy to apply
- Liquid proof
- Excellent resistance to petrol, diesel

PRODUCT INFORMATION

Chemical base	Polyurethane resin and selected quartz	
Packaging	Part A+B+C	31kg set
	Part A	10kg bucket
	Part B	5kg container
	Part C	16kg bag
Appearance / Colour	Part A+B+C	Liquid / Translucent beige
	Part A	Liquid / Whitish transparent
	Part B	Liquid / Brown
	Part C	Powder / White quartz
	IMPORTANT Non-uniform thickness of wearing coat of Sikafloor®-370 TG BC and uneven sand broadcast lead to high undulations on final finish.	
Shelf life	Part A	12 months from date of production. Protect from freezing.
	Part B	6 months from date of production. Protect from freezing
	Part C	12 months from date of production.

Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C.	
Density	~1.52 kg/l (Part A+B+C mixed, +27 °C)	(CQP 006-3)
Solid content by volume	100%	

TECHNICAL INFORMATION

Tensile adhesion strength	~2.6 N/mm2 (concrete failure)	(DIN EN 1542)
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Services for specific information.	

APPLICATION INFORMATION

Mixing ratio

Part A : Part B : Part C = 10 : 5 : 16 (by weight)

Consumption

Application	Consumption
Primer	0.3-0.5 kg/m²
Wearing course	0.6-1.0 kg/m²

Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc

Ambient air temperature

+15 °C min. / +30 °C max.

Relative air humidity

80%

Dew point

Beware of condensation.
The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the floor finish. Low temperatures and high humidity conditions increase the probability of blooming.

Substrate temperature

+15 °C min. / +30 °C max.

Substrate moisture content

≤ 4 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

Pot life

Temperature	Pot life (100g mass)
+20 °C	~30 min
+30 °C	~27 min

Waiting time / Overcoating

Before applying of Sikafloor®-371 TG SF on Sikafloor®-370 TG BC allow:

Substrate temperature	Minimum	Maximum
+20 °C	12 hours	2days
+30 °C	6 hours	1day

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity

SYSTEM INFORMATION

System structure

Layer	Product
Primer	1-2 x Sikafloor®-370 TG BC / Sikafloor®-161 HC
Wearing coat	Sikafloor®-370 TG BC
Sand broadcast	Sika® Quartz 02 IN/Sika® Quartz 03 IN/Sikafloor® SRA
Seal coat / Top coat	1–2 × Sikafloor®-371 TG SF
Top coat (optional)	Sikafloor®-373 TG UV

Refer to the respective Product Data Sheet for more details.

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 DOCUMENTS

- Sika Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika Method Statement: Mixing & Application of Flooring Systems
- Sika Method Statement: Sikafloor®- Cleaning Regime

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

EQUIPMENT

Mixing
- Electric single paddle mixer (300 to 400 rpm)
- Electric double paddle mixer (>700 W, 300 to 400 rpm)

SUBSTRATE QUALITY

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm2) with a minimum pull off strength of 1.5 N/mm2.
- The substrate must be clean, dry and free of all contaminants such as oil, grease, coatings and surface treatments, etc

SUBSTRATE PREPARATION

IMPORTANT
Incorrect treatment of cracks
The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment or diamond grinding machine to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

MIXING

IMPORTANT
Mix full units only
1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. Mix Part A + B continuously for ~1 minute until a uniformly coloured mix is achieved.
4. After mixing for ~1 minute, gradually add Part C while you continue mixing.
5. After combining all parts, mix for an additional ~1 minute, until a uniform mix is achieved.
6. To ensure thorough mixing, pour materials into another container and mix again for ~30 seconds to achieve a smooth and uniform mix.
7. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

APPLICATION

IMPORTANT
Usage of aggregates
Any aggregate used with Sikafloor® systems must be non-reactive and oven-dried. For best results, use Sika aggregates.
IMPORTANT
Application in high moisture
If > 4 % pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.
IMPORTANT
Protecting the material after application
After application, protect the system from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Protect from overhead leaks and condensation

Protect the product during application from pipe condensation or any overhead leaks.

IMPORTANT

Temporary heating

If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish. For heating, use only electric powered warm air blower systems.

IMPORTANT

Application on slope floor

Do not apply on floors with slope > 1 %.

IMPORTANT

Seal coat and UV protection

Protect with seal coat Sikafloor®-371 TG SF and (optional) Sikafloor®-373 TG UV (wherever exposed to UV light).

WEARING LAYER

1. Pour the mixed product onto the substrate. Note: The consumption is specified in Application Information.
2. Apply the product evenly over the surface with a pin leveller or a trowel.
3. Back roll the surface in two directions at right angles with a spike roller. Note: Maintain a "wet edge" during application to achieve a seamless finish.
4. (Optional) Broadcast quartz sand Sika® Quartz 02 IN immediately after spike rolling. Broadcast lightly at first, then to excess uniformly.
5. (Optional) Once the product has hardened sufficiently, remove all loose sand with industrial vacuuming equipment.

IMPORTANT:

Confirm waiting / overcoating time is achieved before applying subsequent products. (Refer to waiting / overcoating times in Application Information)

CLEANING OF TOOLS

Clean all tools and application equipment with suitable solvent immediately after use. 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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