

PRODUCT DATA SHEET

Sikafloor® P 651

(formerly MTop P 651)

THREE COMPONENT TOTAL SOLIDS HIGH-BUILD EPOXY SURFACE SEALER AND PRIMER

DESCRIPTION

Sikafloor® P 651 is a high-grade, high-build, three-component epoxy primer and surface sealer. It can be used as a sealer or scratch coat, with or without the addition of quartz sand.

USES

Sikafloor® P 651 is suitable for priming and sealing concrete surfaces. It may be mixed with sand to the desired consistency for patch repairs or to form coverings. In both cases, the mixed mortar must be applied to a surface previously coated with Sikafloor® P 651 resin while it remains tacky.

FEATURES

- High-build formulation
- Easy to apply
- Medium viscosity
- Effectively seals very porous substrates
- Short waiting times and fast drying
- Good intercoat adhesion
- Strong bond strength

PRODUCT INFORMATION

Composition	Three component epoxy resin with selected fillers
Packaging	25.4 kg units (Part A+B+C)
Appearance and colour	Off-white liquid
Shelf life	Up to 12 months if stored in unopened containers according to manufacturer's instructions.
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions, on pallets clear of the ground and protected from rainfall. Keep out of direct sunlight and away from excessive heat, moisture, and temperature extremes. In tropical climates, the product must be stored in an air-conditioned environment at temperatures between +5°C and +30°C.
Density	~1.55 kg/L (mixed, at 25°C)
Solid content by mass	~100% Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)

TECHNICAL INFORMATION

Flexural-strength	≥ 40 N/mm ² (at 25°C)	(ASTM C580)
Tensile strength	≥ 15 N/mm ² (at 25°C)	(ASTM C307)
Tensile adhesion strength	≥ 1.5 N/mm ² (or failure in concrete)	(ASTM D4541)
Skid / slip resistance	~85	(BS 7976, Part 2)
Service temperature	Dry heat permanent exposure up to +60°C.	

APPLICATION INFORMATION

Consumption	From 0.25 - 0.35 kg/m ² depending on surface texture and porosity. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.	
Ambient air temperature	+10°C min. / +40°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. Note: Low temperatures and high humidity conditions increase the probability of blooming.	
Substrate moisture content	< 5 % pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM D4236 (Polyethylene-sheet).	
Pot Life	Temperature:	Time:
	+25°C	~40 min.
	+40°C	~20 min.
Curing time	Full cure: ~7 days at +25°C Curing times are approximate and will be affected by changing ambient conditions.	
Waiting time to overcoating	Temperature:	Initial Cure:
	+25°C	~15 h
	+40°C	~10 h
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.

IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor® P 651 on substrates with rising moisture.
- Freshly applied Sikafloor® P 651 should be protected from damp, condensation and water for at least 24 hours.
- Practical trials should be carried out for mortar mixes to assess suitable aggregate grain size distribution.
- For external applications, apply on a falling temperature. If applied during rising temperatures "pin holing" may occur from rising air.

Construction joints require pre-treatment. Treat as follows:

- Static Cracks: prefill and level with Sikadur® or Sikafloor® suitable epoxy resin based mortars.
- Dynamic cracks: to be assessed and if necessary apply a stripe coat of elastomeric material or design as a movement joint.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

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 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 dirt, oil, grease, coatings and surface treatments, etc.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment 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 the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® or SikaEmaco® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

Prior to mixing, stir Part A (base) thoroughly for approximately 30 seconds. Add Part B (hardener) to Part A and mix continuously for about 1 minute until the blend is streak-free and uniform. Then gradually add Part C (PTC powder) and continue mixing for an additional 2 minutes until a smooth, homogeneous consistency is achieved. Use a slow-speed electric drill (300–400 rpm) fitted with a suitable mixing paddle to minimize air entrapment. During mixing, ensure that material from the sides and bottom of the container is fully incorporated by occasionally scraping with a flat spatula or trowel. To ensure complete and uniform mixing, transfer the material into a clean container and remix briefly. Avoid overmixing to prevent air entrapment.

APPLICATION

Apply the mixed Sikafloor® P 651 to the substrate using a medium-pile roller at a rate suitable for the absorption of the surface. Ensure the primer forms a glossy, uniform film; any dry or matt areas must be re-primed.

CLEANING OF EQUIPMENT

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

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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.

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