

PRODUCT DATA SHEET

Sikafloor® P 650

(formerly MTop P 650)

TWO COMPONENT TOTAL SOLIDS EPOXY SURFACE SEALER AND PRIMER

DESCRIPTION

Sikafloor® P 650 is a high grade, low-viscosity, two-component epoxy primer and surface sealer. Sikafloor® P 650 is used as a sealer or scratch coat, with or without, the addition of quartz sand.

USES

Sikafloor® P 650 is suitable for the sealing of concrete surfaces, as well as for the filling of fissures and joints. For improved subsequent coat adhesion, Sikafloor® P 650 can be lightly broadcasted with quartz sand, while still wet, to create additional mechanical key. Sikafloor® P 650 may be mixed with selected aggregate to the desired consistency, to create mortar for patch repairs or to form covings. The mixed mortar must be applied to a surface previously coated with Sikafloor® P 650 resin, whilst still tacky.

CHARACTERISTICS / ADVANTAGES

- Easy application
- Low viscosity
- Seals porous substrate
- Multipurpose primer
- Good penetration
- Short waiting times, faster drying
- Good intercoat adhesion
- Excellent bond strength

PRODUCT INFORMATION

Chemical Base	Two component epoxy resin
Packaging	15 kg units (A+B)
Shelf Life	12 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. Store under cover, out of direct sunlight and protect from temperature extremes. In tropical climates the product must be stored in an air-conditioned environment.
Appearance / Colour	Clear to pale yellow liquid
Density	~1.09 kg/l (mixed, at 25°C)
Solid Content by Weight	~100 % Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)

TECHNICAL INFORMATION

Tensile Adhesion Strength Greater than cohesive strength of typical good quality concrete substrate

APPLICATION INFORMATION

Consumption	Min. 0.15 kg/m ² This figure is theoretical and does 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 Temperature	+10°C min. / +40°C max.	
Substrate Moisture Content	< 5 % pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).	
Pot Life	~20 minutes at 25°C	
Curing Time	Full cure: 7 days at 20°C	
Tack Free Time	~20 min. at 25°C	
Waiting Time / Overcoating	Temperature	Waiting time for overcoating
	+20°C	12 hours
	+30°C	6 hours

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.
- Internal Reference Version : MBS_CC-UAE/
Top_P650_06_98/v2/07_15/v3/09_19

FURTHER DOCUMENTS

- Method Statement** - Thin section epoxy repair
- Substrate quality & Preparation:** Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

LIMITATIONS

- Do not apply Sikafloor® P 650 on substrates with rising moisture.
- Freshly applied Sikafloor® P 650 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 holding" 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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

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

Pour the reactor (Part B) component into the base (Part A) component then mix continuously until streak free, approx. for 3 minutes.

On porous surfaces a maximum of 0.5 L of a suitable thinner (Xylene / MEK / Acetone) per 15 kg unit of primer may be added to improve penetration.

APPLICATION

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor® P 650 by brush, roller, airless spray or squeegee at the required coverage depending from substrate porosity. Preferred application is by using a squeegee and then back rolling crosswise.

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.

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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