

PRODUCT DATA SHEET

Sikafloor® TC 460

Solvent free epoxy varnish primer

DESCRIPTION

Sikafloor® TC 460 Epoxy Varnish is a solvent-free, two-pack varnish for priming concrete floors in nuclear power plants before application of Sikafloor®- BC 360

USES

Sikafloor® TC 460 may only be used by experienced professionals.

- Sikafloor® TC 460 Epoxy Varnish is a solvent-free, two-pack varnish for priming concrete floors in nuclear power plants before application of Mastertop BC 360 epoxy coating and flooring Composition.
- The varnish can be filled with sand and the be used for repairs of concrete floors and rounding up the edges at walls.
- Sikafloor® TC 460 Varnish can also be used as a finishing coat.

CHARACTERISTICS / ADVANTAGES

Sikafloor® TC 460 is a resistant to radioactive radiation (108 rad) and it is easy to decontaminate.

PRODUCT INFORMATION

Packaging	Part A+B	9.75 kg
	Part A	6.65 kg
	Part B	3.10 kg
Shelf Life	24 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 +10 °C and +30 °C.	
Density	1.08 Kg/l	
Volatile organic compound (VOC) content	0 g/l	
Solid content by volume	100%	

TECHNICAL INFORMATION

Tensile Adhesion Strength	2 Mpa (Concrete failure)	(ASTM C 7234)
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APPLICATION INFORMATION

Mixing Ratio	A : B = 6.65 : 3.10
Consumption	0.16-0.32 Kg/m ² . 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	+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. Low temperatures and high humidity conditions increase the probability of blooming.
Substrate Temperature	+10 °C min. / +35 °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	30 - 40 min at +23°C

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

- Do not apply Sikafloor® TC 460 on substrates with rising moisture
- Do not blind the primer.
- Freshly applied Sikafloor® TC 460 must be protected from damp, condensation and water for at least 72 hours.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- Any aggregate used with Sikafloor® systems must be non-reactive and oven dried. For best results, use Sika® Quartz product range.

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 double paddle mixer (> 700 W, 300 to 400 rpm)

Application

- Squeegee

- Fleece roller
- Brush

SUBSTRATE QUALITY

- Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

- Remove weak cementitious substrates.
- Prepare cementitious substrates mechanically using abrasive blast cleaning or grinding / scarifying equipment to remove cement laitance and achieve an open textured surface gripping surface profile suitable for the product thickness.
- Before applying thin layer resins, remove high spots by grinding.
- Use industrial vacuuming equipment or brush to remove all dust, loose and friable material from the application surface before applying the Product.
- Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids.
- Contact Sika Technical Services for additional information on products for levelling and repairing defects

MIXING

- Mix Part A (resin) for ~30 seconds.
- Add Part B (hardener) to Part A.
- Mix continuously for 3 minutes, until a uniform mix is achieved.

Note: Avoid excessive mixing to minimise air entrainment.

APPLICATION

- Pour the mixed product onto the substrate. The consumption is specified in application Information.
- Apply the product evenly over the surface with brush, fleece roller or squeegee.
- Back roll the surface in two directions at right angles with a fleece roller. Maintain a "wet edge" during application to achieve a seamless finish.
- Ensure a continuous, pore free coat covers the substrate. If necessary, apply second coat.

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 Thinner C or 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. 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.

Sika Pakistan (Pvt.) Limited

141-CCA Phase IV, DHA
Lahore Punjab 54792
Pakistan
phone: +92 42 3569 4266 - 67
fax: +92 42 3569 4268
<http://pak.sika.com/>

Product Data Sheet

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