



BUILDING TRUST



## PRODUCT DATA SHEET

# Sikafloor®-321 Primer

Polyurethane high solids primer (Formerly POLYDECK PRIME PU)

### DESCRIPTION

Sikafloor®-321 Primer is a two-component, high solids, solvent free polyurethane primer for Sikafloor® polyurethane flooring systems.

### USES

Sikafloor®-321 Primer may only be used by experienced professionals.

- Primer for Sikafloor® polyurethane systems for car park decks, garage, aircraft hangar, loading ramps, etc.
- Primer for Sikafloor® polyurethane systems on all cementitious substrates

### CHARACTERISTICS / ADVANTAGES

- Solvent free
- Liquid proof
- Easy application
- Good penetration
- Good bond strength

### PRODUCT INFORMATION

<b>Composition</b>	Polyurethane	
<b>Packaging</b>	Part A+B	6.0 kg set
	Part A	4.5 kg container
	Part B	1.5 kg container
<b>Shelf life</b>	Part A	12 months from date of production. <b>Protect from freezing.</b>
	Part B	6 months from date of production. <b>Protect from freezing.</b>
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C.	
<b>Appearance and colour</b>	Part A+B mixed	Liquid, Brownish
	Part A (Resin)	Liquid, Whitish transparent
	Part B (Hardener)	Liquid, Brownish
<b>Density</b>	~1.04 kg/L (Part A+B mixed, +27 °C)	(EN ISO 2811-1)
<b>Solid content by mass</b>	100 %	
<b>Solid content by volume</b>	100 %	

## TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.5 N/mm <sup>2</sup> (concrete failure)	(EN 1542)
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## APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 4.5 : 1.5 (by weight)		
Consumption	~0.200–0.250 kg/m <sup>2</sup> per coat Note: 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. / +35 °C max.		
Relative air humidity	80 % max.		
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	+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	<b>Temperature</b>	<b>Pot life (100 g mass)</b>	
	+10 °C	~35 minutes	
	+20 °C	~30 minutes	
	+30 °C	~27 minutes	
Waiting time to overcoating	Before applying solvent free products over Sikafloor®-321 Primer allow:		
	<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	+10 °C	24 hours	3 days
	+20 °C	12 hours	2 days
	+30 °C	6 hours	1 days
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			

## 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 INFORMATION

- Sika Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika Method Statement: Mixing & Application of Flooring Systems
- Product Data Sheet of subsequent coatings to be applied

## 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

### IMPORTANT

#### Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

### EQUIPMENT

#### Mixing

- Electric single paddle mixer (300 to 400 rpm)

#### Application

- Squeegee
- Short pile roller

## SUBSTRATE QUALITY

- Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- 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

### IMPORTANT

#### Exposing blow holes and voids

When mechanically preparing the surface, make sure to fully expose blow holes and voids.

#### Mechanical substrate preparation

- Remove weak cementitious substrates.
- Prepare cementitious substrates mechanically using abrasive blast cleaning or planing / 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.

#### Treatment of joints and cracks

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

### IMPORTANT

#### Incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

## MIXING

### IMPORTANT

#### Mix full units only

1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. Mix continuously for 2 minutes, until a uniform mix is achieved.

Note: Avoid excessive mixing to minimise air entrainment.

4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
5. 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

#### Application in high moisture

If > 4 % pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.

### IMPORTANT

#### Protect from moisture

After application, protect the product from damp, condensation and direct water contact for at least 24 hours.

### 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.

1. For heating, use only electric powered warm air blower systems.

### IMPORTANT

#### Pin holes

If applied on porous substrates during rising temperatures pin holes may occur from rising air.

1. Apply during falling temperatures.

#### Standard primer application

1. Pour the mixed product onto the substrate. The consumption is specified in Application Information.
2. Apply the product evenly over the surface with brush, fleece roller or squeegee.
3. 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.
4. Ensure a continuous, pore free coat covers the substrate. If necessary, apply second coat.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C or suitable solvent immediately after use. Hardened material can only be removed mechanically.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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