

PRODUCT DATA SHEET

Sikafloor®-312

Two-component polyurethane primer

DESCRIPTION

Sikafloor®-312 is a two-component, polyurethane resin that can be used as primer for Sika polyurethane flooring systems.

USES

Sikafloor®-312 may only be used by experienced professionals.

- Suitable for primer of concrete substrates and polyurethane mortars.
- Suitable for highly absorbent substrates.
- Resin bonding material for broadcasting layer.

CHARACTERISTICS / ADVANTAGES

- Good adhesion
- Good permeability
- Easy to apply
- Short recoat time
- Multi-purpose

APPROVALS / STANDARDS

GB/T 22374

PRODUCT INFORMATION

Chemical Base	Polyurethane		
Packaging	Part A	18 kg/pail	
	Part B	6 kg/pail	
	Part A+B	24 kg/set	
Appearance / Colour	Part A	Light brown, liquid	
	Part B	Brown, liquid	
Shelf Life	12 months		
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +25 °C. Always refer to packaging.		
Density	Part A	~1.25 kg/L	GB/T 6750
	Part B	~1.23 kg/L	
	Mixture	~1.24 kg/L	
Volatile Organic Compound (VOC) Content	≤ 60g/L		
Solid Content by Weight	99%		

Solid Content by Volume 99%

TECHNICAL INFORMATION

Shore D Hardness ~40 MPa

Tensile Adhesion Strength \geq 2MPa

APPLICATION INFORMATION

Mixing Ratio Part A : Part B= Mix full units only.

Consumption	Coating system	Product	Consumption
	Primer	Sikafloor®-312	~0.3 kg/m ²
	Topcoat	Polyurethane topcoat of Sika	refer to the PDS

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 +10 °C min./+30°C max.
Optimal application temperatures range : 15°C - 25°C

Relative Air Humidity 70% r.h. max.

Dew Point Beware of condensation!
The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

Substrate Temperature +10°C min. / +30°C max.

Substrate Moisture Content < 4% pbw moisture content.
Test method: Sika®-Tramex meter or CM - measurement. No rising moisture according to ASTM (Polyethylene-sheet).

Pot Life	Temperature	Time
	+20 °C	~25 minutes

Curing Time	Temperature	Foot traffic	Light traffic	Full cure
	+20°C	10~12 hours	14~16 hours	2 days

Note: At low temperature the curing need longer time.

Waiting Time / Overcoating	Before applying other topcoats on Sikafloor®-312, times allow:		
	Substrate temperature	Minimum	Maximum
	+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

SYSTEM INFORMATION

Systems	Coating system	Product
	Primer	Sikafloor®-312
	Topcoat	Polyurethane topcoat of Sika

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.

BASIS OF PRODUCT DATA

based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

All technical data stated in this Product Data Sheet are

LIMITATIONS

Do not apply Sikafloor®-312 on substrates with rising moisture.

Freshly applied Sikafloor®-312 should be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on the surface with the primer.

Sikafloor®-312 mortar screed is not suitable for frequent or permanent contact with water unless sealed.

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® epoxy resin

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. Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.

ECOLOGY, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

EQUIPMENT

Sikafloor®-312 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used.

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete substrates 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.

If in doubt, apply a test area first.

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 blowholes 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® and SikaGard® range of materials.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

High spots must be removed by e.g. 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.

MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved.

When parts A and B have been mixed, add the quartz sand and if required the Extender T and mix for a further 2 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

APPLICATION

Prior to application, confirm substrate moisture content, r.h. and dew point.

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

Primer:

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-312 by brush, roller or squeegee.

Levelling mortar:

Rough surfaces need to be levelled first. Apply the levelling mortar by squeegee/trowel to the required thickness.

Intermediate layer:

Sikafloor®-312 is poured, spread evenly by means of a serrated trowel. Roll immediately in two directions with spiked roller to ensure even thickness and if required broadcast with quartz sand, after about 15 minutes (at +20°C) but before 30 minutes (at +20°C), at first lightly and then to excess.

Bonding bridge:

Apply Sikafloor®-312 by brush, roller or squeegee.

Plyurethane screed / repair mortar:

Apply the mortar screed evenly on the still "tacky" bonding bridge, using levelling battens and screed rails as necessary. After a short waiting time compact and smoothen the mortar with a trowel or Teflon coated power float (usually 20 - 90 rpm).

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C 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 cur-

rent 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 HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,
6 On Ping Street, Shatin, N.T., H.K.
Phone: +852 26868108
Fax: +852 26453671
Mail: marketing@hk.sika.com
Website: www.sika.com.hk



Product Data Sheet

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