

PRODUCT DATA SHEET

Sikafloor®-159 BH

Two-part PUR primer

DESCRIPTION

Sikafloor®-159 BH is a two-part, tough-elastic polyurethane primer coat for smooth and broadcasted finishes. Suitable for use in hot and tropical climatic conditions.

USES

Sikafloor®-159 BH may only be used by experienced professionals.

- For priming concrete substrates
- Primer underneath polyurethane flooring
- Particularly suitable for car park decks, loading ramps and warehouses etc.

CHARACTERISTICS / ADVANTAGES

- Tough-elastic
- Excellent bond strength
- Good penetration
- Easy application
- Short waiting times
- Multi-purpose

PRODUCT INFORMATION

Composition	Polyurethane	
Packaging	Part A	16.5 kg containers
	Part B	3.5 kg containers
	Part A + B	20 kg ready to mix units
Shelf life	12 months minimum from date of production if stored properly in original, unopened and undamaged sealed packaging	
Storage conditions	Store in dry conditions in original sealed packaging and at temperatures between +5 °C and +35 °C.	
Appearance and colour	Part A	Brownish-transparent liquid
	Part B	Transparent liquid
Density	Part A	~1.43 kg/l
	Part B	~0.96 kg/l
	Part A + B	~1.33 kg/l
All density value is at 23 °C		
Solid content by mass	~74 %	

TECHNICAL INFORMATION

Tensile adhesion strength	> 1.5 N/mm ² (failure in concrete)	(ISO 4624)
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APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 82.5 : 17.5 (by weight)		
Consumption	~0.15 - 0.25 kg/m ² depending on system, exposure and area of application. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc..		
Layer thickness	~0.15 mm		
Ambient air temperature	+10 °C min. / +35 °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.		
Substrate temperature	+10 °C min. / +35 °C max.		
Substrate moisture content	< 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM – measurement or oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	Temperature	Time	
	+10 °C	~60 min	
	+20 °C	~45 min	
	+30 °C	~30 min	
Curing time	Before overcoating Sikafloor®-159 BH allow waiting time of:		
	Substrate temperature	Minimum	Maximum
	+10°C	~36 h	~72 h
	+20°C	~24 h	~48 h
	+30°C	~16 h	~36 h
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. If maximum waiting time is exceeded, the Sikafloor®-159 BH surface have to be grinded to get mechanical bonding between the Sikafloor® layers			

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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® and Sikagard® 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.

For detailed information regarding substrate quality /pre-treatment please refer to the method statement.

MIXING

Mix full kits only. 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.

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, relative humidity and dew point. If more than 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. Apply Sikafloor®-159 BH by brush, roller or squeegee. Preferred application is by using a squeegee and then back rolling crosswise.

CLEANING OF EQUIPMENT

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

MAINTENANCE

To maintain the appearance of the floor after application, Sikafloor®-159 BH must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes.

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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ISO 45001: Sika UAE LLC,
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All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards ISO 9001,
ISO 14001 and ISO 45001.

Product Data Sheet

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