

PRODUCT DATA SHEET

Sikalastic® Primer MP

2-PART EPOXY PRIMER FOR CONSISTENT AND DURABLE ADHESION OF SIKALASTIC® LIQUID APPLIED MEMBRANES ON MINERAL AND METAL SUBSTRATES

DESCRIPTION

Sikalastic® Primer MP is a two part, low viscosity, high solid, epoxy resin.

USES

- Primer for Sikalastic® Liquid Applied Membrane systems (PU or PUA based)
- Primer/sealer for mineral substrates
- Primer for pretreated metals substrates
- For internal and external use

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion on to marginally pretreated mineral and metal substrates
- Very good adhesion on properly prepared damp concrete substrates
- Enables faster completion of application of Sikalastic® PU and PUA systems onto roof decks after rainfall and/or surface preparation with high pressure water jetting
- 100% solids, zero VOC
- Low viscosity primer
- Odorless, non-toxic vapours
- Formulated to be part of a compatible system with Sikalastic® PUA and PU Liquid Applied Membranes
- Eliminates pin-holes
- Applied by brush, spray or roller

APPROVALS / CERTIFICATES

- Epoxy primer for Sikalastic®-831 HP and Sikalastic®-843 GP hot spray membranes.
- According to DIN EN 13578:2004 "Products and systems for the protection and repair of concrete structures – Test method – Compatibility on wet concrete".

PRODUCT INFORMATION

Composition	Epoxy	
Packaging	5 kg & 30 kg sets	
Appearance / Colour	Part A:	Clear liquid
	Part B:	Brown liquid
Shelf life	12 months from date of production	
Storage conditions	Store properly in original, unopened, sealed and undamaged packaging, in cool and dry conditions, protected from direct sunlight.	

Density	Part A	~ 1.13 g/l	(ISO 1675)
	Part B	~ 1.01 g/l	
All density values at +20°C.			
Solid content	100% b.w. 100% b.v.		
Volatile organic compound (VOC) content	Zero VOC		

APPLICATION INFORMATION

Mixing Ratio	Part A: Part B = 100:60 (by weight) Part A: Part B = 100:61,64 (by volume)																																						
Consumption	300-600gr/m ² Low/medium porosity concrete: 1 x Sikalastic® Primer MP High porosity concrete: 2 x Sikalastic® Primer MP These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage, e.t.c.																																						
Ambient Air Temperature	+10°C min. / +30°C max.																																						
Relative Air Humidity	80% 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	Can be applied on substrates with high moisture content, but without any ponding/standing water. Check rising moisture. Ideally moisture content shall be < 6% p.b.w. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.																																						
Pot Life	~ 45 minutes at +23°C																																						
Waiting Time / Overcoating	<p>Before applying solvent free products on Sikalastic® Primer MP allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>24 hours</td> <td>3 days</td> </tr> <tr> <td>+20°C</td> <td>12 hours</td> <td>2 days</td> </tr> <tr> <td>+30°C</td> <td>8 hours</td> <td>1 day</td> </tr> </tbody> </table> <p>Before applying PUA products on Sikalastic® Primer MP allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>24 hours</td> <td>2 days</td> </tr> <tr> <td>+20°C</td> <td>12 hours</td> <td>1 day</td> </tr> <tr> <td>+30°C</td> <td>6 hours</td> <td>16 hours</td> </tr> </tbody> </table> <p>Before applying solvent containing products on Sikalastic® Primer MP allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>36 hours</td> <td>4 days</td> </tr> <tr> <td>+20°C</td> <td>24 hours</td> <td>3 days</td> </tr> <tr> <td>+30°C</td> <td>12 hours</td> <td>2 days</td> </tr> </tbody> </table> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.</p>			Substrate temperature	Minimum	Maximum	+10°C	24 hours	3 days	+20°C	12 hours	2 days	+30°C	8 hours	1 day	Substrate temperature	Minimum	Maximum	+10°C	24 hours	2 days	+20°C	12 hours	1 day	+30°C	6 hours	16 hours	Substrate temperature	Minimum	Maximum	+10°C	36 hours	4 days	+20°C	24 hours	3 days	+30°C	12 hours	2 days
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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete substrates must be sound and of sufficient compressive strength ($\geq 25 \text{ N/mm}^2$) with a minimum pull off strength of 1.5 N/mm^2 .

The substrate must be clean and free from all contaminants such as dirt, oil, grease, coatings and surface treatments, e.t.c.

On critical substrates, e.g a strongly absorbent cementitious surface, the application on a small scale area is highly recommended, in order to ensure a pore free surface after priming.

SUBSTRATE PREPARATION

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 products.

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, if required add quartz sand and/or Extender T and mix for additionally 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.

Mixing tools:

Sikalastic® Primer MP 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.

APPLICATION

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

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikalastic® Primer MP by brush, roller or squeegee. Preferred application is by squeegee and then back-rolling crosswise.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- Do not apply Sikalastic® Primer MP on substrates with rising moisture.
- Freshly applied Sikalastic® Primer MP should be protected from damp, condensation and water for at least 24 hours.
- For external applications, apply on a falling temperature. If applied during rising temperatures "pin holing" may occur from rising air. If such thing occurs, pinholes can be closed after a soft grinding by applying a scratch coat of Sikalastic® Primer MP mixed with approx. 4 % of Extender T.
- Construction joints require pre-treatment. Treat as follows:

1. Static Cracks: Prefill and level with Sikadur® or Sikafloor® epoxy resins
2. Dynamic cracks: To be assessed and if necessary apply a stripe coat of elastomeric material or design them as 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.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

Tools:

Recommended supplier of tools:

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com

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.

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.

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-re-

lated data.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) is 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikalastic® Primer MP is < 500 g/l VOC for the ready to use product.

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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