BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-1 C Primer PU

1-component, fast-curing, polyurethane based primer

DESCRIPTION

Sikalastic®-1 C Primer PU is a 1-component, fast-curing, polyurethane based primer.

USES

Sikalastic®-1 C Primer PU may only be used by experienced professionals.

- Suitable substrates for applications are concrete, wood and metal
- Primer for Sikalastic® roof waterproofing systems

CHARACTERISTICS / ADVANTAGES

- 1-component, easy to apply
- Low viscosity
- Fast Curing
- Enhances adhesion to existing Sikalastic® system

PRODUCT INFORMATION

Chemical Base	Polyurethane	
Packaging	1.0 lt, 4.0 lt and 20.0 lt metal pails	
Colour	Brown liquid	
Shelf Life	12 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 +5 °C and +25 °C. Always refer to packaging.	
Density	~0.95 kg/lt (at 20 °C)	(ASTM D1475 / DIN 5321 / ISO 2811)
Viscosity	60 – 100 mPa*s (at 25 °C)	(ASTM D2196-86)

TECHNICAL INFORMATION

Tensile Strength	3.5 N/mm²	(EN ISO 527-3)
Elongation at Break	>150 % (at 23 °C)	(EN ISO 527-3)

APPLICATION INFORMATION

Consumption	Sikalastic®-1 C Primer PU is applied in 1 or 2 coats. Approx. 100 – 500 gr/m² depending on the substrate. 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	Minimum +5 °C Maximum +35 °C
Relative Air Humidity	≤80 % r.h.
Dew Point	Beware of condensation. The substrate and uncured coating must be at least 3 °C above dew point to reduce the risk of condensation or blooming of the membrane finish.
Substrate Temperature	Minimum +5 °C Maximun +35 °C
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)
Curing Time	60 – 90 min
Tack Free Time	60 min
Waiting Time / Overcoating	Temperature: +23 °C; Minimum: 1 hour; Maximum: 48 hours Apply an additional coat if 48 hours is exceeded before coating. 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.

LIMITATIONS

- Do not apply Sikalastic®-1 C Primer PU on substrates with rising moisture.
- Do not use Sikalastic®-1 C Primer PU for indoor applications.
- Continuously monitor the pot life of the mixed material.
- After application, Sikalastic®-1 C Primer PU must be protected from damp, condensation and direct contact with water (rain).
- Do not apply Sikalastic®-1 C Primer PU close to the air intake vent of a running air conditioning unit. Switch-off units and seal intakes before applying.
- The incorrect assessment and treatment of cracks may lead to reduced service life and reflective cracking.
- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating Sikalastic®-1 C Primer PU, use only electric powered warm air blower systems.

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.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / h type SB) is 750 g/l (Limits 2010) for the ready to use product.
The maximum content of Sikalastic®-1 C Primer PU is < 750 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

EQUIPMENT

Substrate preparation equipment
- Abrasive blast cleaning / planing / scarifying or grinding equipment
- High pressure power washer

Mixing Equipment
- Electric single paddle mixer

Application Equipment
- Brush

- Roller

SUBSTRATE QUALITY

Concrete substrates must be sound and of sufficient compressive strength (≥25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
On critical substrates, e.g a highly 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

All surfaces to be coated should be thoroughly cleaned by conventional means. The substrate must be clean and free from all contaminants such as dirt, oil, grease, coatings and surface treatments, e.t.c.

- Steel is ideally prepared by shot blasting to Sa 21/2 or SSPC 10 (nearly white metal). Where blasting is not permitted then clean metal preparation by power tools is acceptable. Non-ferrous metals are prepared by removing deposits of dust and oxidation and abrade to white metal. Wire brushing can be used on soft metals, i.e. copper.
- 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 levelled in order to achieve an even surface. High spots must be removed by e.g. grinding.

Ensure that surfaces are free from visible dampness and that all dust, loose and friable material is completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

MIXING

Prior to application, stir Sikalastic®-1 C Primer PU gently but thoroughly for 1 minute in order to achieve a homogeneous mixture.
For mixing, an electric single paddle mixer (300-400 r.p.m.) with a spiral blade can be used.
Over mixing must be avoided to minimize air entrainment.

APPLICATION

Prior to application, confirm substrate moisture content, r.h. and dew point.
Make sure that a continuous, pore free layer covers the substrate. If necessary, apply two priming coats.
Apply Sikalastic®-1 C Primer PU by brush or roller.
Consumption is depending on the porosity of the substrate, ranging between 100 – 500 gr/m² in one or two coats.
On existing Sikalastic® system the consumption must be maximum 100 gr/m² in one coat.

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened 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 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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