Liquid Plastics

PRODUCT DATA SHEET

Sikalastic® Rapid Cementitious Primer

TWO COMPONENT, FAST-REACTIVE PRIMER FOR ABSORBENT SUB-STRATES

PRODUCT DESCRIPTION

Sikalastic® Rapid Cementitious Primer is a rapid curing primer, consisting of two components. To be used on absorbent substrates as a barrier for the later application of Sikalastic® Rapid waterproofing or surfacing products.

USES

- Used for the pre-treatment (primer and barrier coat) of slightly absorbent mineral and timber surfaces such as concrete, screed, cementitious renders, wood.
- For new construction and refurbishment projects

CHARACTERISTICS / ADVANTAGES

- Very good adhesion on absorbent substrates
- Fast-curing
- Hydrolysis and alkali resistant
- Easy and fast application
- Solvent-free

PRODUCT INFORMATION

Chemical Base	Two-component Polymethylmethacrylate (PMMA) Resin and catalyst	
Packaging	**SUMMER**	
	Sikalastic® Rapid Cementitious Primer	10.00kg
	Sikalastic® Rapid Catalyst	0.30kg (3 x 0.1kg)
	Total	10.30kg
	WINTER	
	Sikalastic® Rapid Cementitious Primer	10.00kg
	Sikalastic® Rapid Catalyst	0.60kg (6 x 0.1kg)
	Total	10.60kg
Appearance / Colour	Pigmented liquid - white	
Shelf Life	Unopened products have a shelf life of at least 12 months.	

Storage Conditions	Store products sealed in their original airtight container and in a cool, dry and frost-free place. Direct sunlight on the containers should be avoided, including on site. After removing some of the contents, reseal the containers so they are airtight. Reference should also be made to the storage recommendations of the material safety datasheet.
Density	1.08 g/cm³ White

APPLICATION INFORMATION

Consumption

Substrate	Consumption
Smooth	0.40kg/m²
Fine-sandy	0.50 kg/m²
Rough	0.80 kg/m²

Ambient Air Temperature

+3°C min / +35°C max

Relative Air Humidity

The relative humidity must be ≤90%

Dew Point

Beware of condensation. Surface temperature during application and cure must be a minimum of 3°C above dew point.
The substrate temperature must not be less than +3°C if a topping is applied to the surface. Reaction problems can occur at lower temperatures.

Substrate Temperature

+3°C min / +50°C max

Substrate Moisture Content

The surface to be coated must be dry and ice-free.
The surface must be protected from moisture until the coating has hardened.
Substrates such as new concrete containing residual moisture can be coated provided they have set sufficiently and the substrate is properly prepared.

Pot Life

The material in opened containers should be applied immediately.
At 20°C, 3% catalyst the pot life is approximately 10 minutes

Curing Time

Temperature	Catalyst	Rain resistant	Can be trafficked/overcoated	Full cure
20°C	3%	30 minutes	30 minutes	2 hours

Note: Times are approximate and will be affected by changing ambient conditions.
Higher temperatures or greater proportions of Sikalastic® Rapid Catalyst will reduce reaction times, while lower temperatures and smaller proportions of Catalyst will increase reaction times.
The following table indicates the recommended amount of Sikalastic® Rapid Catalyst required to adjust the curing reaction to the temperature.

Substrate temperature in °C; required amounts of Sikalastic® Rapid Catalyst in % w/w (guide)

-10	-5	+3	5	10
-	-	6%	6%	4%
15	**20**	**25**	**30**	**35**
4%	2%	2%	2%	2%
40	**45**	**50**		
1%	1%	1%		

Return-to-service times are provided as a guide only and may vary as a result of conditions. Newly installed balconies should be protected from exposure to heavy traffic by overlaying with an appropriate protective covering. This is particularly critical where early access is needed by other construction related traffic. Sika Liquid Plastics will not be held responsible for damage to balcony surfaces that results from failures to adequately protect newly laid areas.
For further advice, consult Sika Liquid Plastics Technical Customer Services

Waiting Time / Overcoating	Once the primer has hardened, apply a second layer and top with a little quartz sand (0.1-0.2 kg/m² at 0.2mm – 0.6mm) while the primer is still wet. The sand topping creates the necessary key (roughness) for application of the mortar. Never apply the topping to the first coat of primer.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate must be sound, dry and free from loose or adhesion inhibiting material. Paint, cement laitance,surface dressings, dirt and grease, etc., must always be removed completely. Normally this will be achieved by shot blasting, milling or grinding (although any successful method is acceptable depending on the area being treated) and then vacuum and clean off the residue. High Pressure water jetting can work, in so far as removing some forms of contamination, but may, depending on the substrate, add more moisture to the substrate which will need time to dry out.
Please refer to the Sikalastic® Rapid Method Statement for further information on substrate preparation.

SUBSTRATE PREPARATION

The primer must only be applied to a prepared substrate. Please refer to the Sikalastic® Rapid Method Statement for further information on substrate preparation.

MIXING

Use a twin-paddle stirrer to mix the product.
First stir the tub contents thoroughly.
Then add the Sikalastic® Rapid Catalyst while stirring the resin at the slow speed setting and mix for 2 minutes. Make sure that the product on the base and sides of the container is mixed in.
At product temperatures <10°C the product should be stirred for 4 minutes,as the catalyst will take longer to dissolve.

APPLICATION

Sheepskin roller
Brush (only for areas not accessible with roller)
Use the sheepskin roller to apply an even film-forming coat of primer. Avoid creating puddles of primer.
Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated).

CLEANING OF TOOLS

If work is interrupted or when it is completed, clean the tools thoroughly with Sikalastic® Rapid Cleaner within the pot life of the material (approx. 10 minutes). This can be done with a brush. Do not use the tools again until the Cleaner has evaporated fully. Simply immersing the tools in the Cleaner will not prevent the material hardening.

VALUE BASE

All technical data stated in this 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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, please refer to the most recent Safety Datasheet.

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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