

## PRODUCT DATA SHEET

# Sikagard® P 770

(formerly MSeal P 770)

2-Component Xolutec® Primer for resin-based Sikagard®- and Sikalastic®-coatings

### DESCRIPTION

Sikagard® P 770 is a two-component primer based on Xolutec® - Technology, providing high substrate penetration and acting as bond promoter for the subsequent products, e.g. Sikagard® M 790 as part of the Sikagard®-7000 CR system.



Xolutec is an innovative and smart way of combining complementary chemistries. When the material is mixed on site a cross linked interpenetrating network (XPN) is formed enhancing the overall material properties. By controlling the cross-linking density, the properties of Xolutec can be adjusted depending on the product performance required, e.g. this allows the formulation of materials with varying degrees of toughness and flexibility. Xolutec is very low in volatile organic components (VOC), is quick and easy to apply with both spray and hand application depending on requirements. It cures rapidly even at low temperature, reducing application time thus enabling fast return to service and minimizing downtime. This technology is not sensitive to moisture and tolerates a wide variety of different site conditions, greatly expanding the application window and reducing the potential for delays and failures. Long maintenance cycles and lower life cycle costs significantly reduce total cost of ownership.

### USES

Sikagard® P 770 is used as primer on mineral substrates for several approved Sikagard® and Sikalastic® systems. It will improve the adhesion and prevent the appearance of pinholes or bubbles in the subsequent hardened coating. Sikagard® P 770 is moisture tolerant and can be applied on substrates with high residual humidity.

### CHARACTERISTICS / ADVANTAGES

- Low viscosity
- Easy to apply
- Excellent penetration
- Seals pores and capillaries
- Moisture tolerant: can be applied on substrates with high residual humidity.
- Certified radon tightness
- Excellent bond to substrate
- Does not contain solvents.

### APPROVALS / STANDARDS

- CE Certification as Primer for Sikagard M 790 in the system Sikagard-7000 CR according to EN 1504-2.
- Radon tightness certificate according ISO TS 11665-13.
- Test report Determination of water-vapour transmission properties according to EN ISO 7783:2012

## PRODUCT INFORMATION

<b>Packaging</b>	Sikagard® P 770 is available in 5 kg Kits consisting of 2.2 kg Part A and 2.8 kg Part B as well as 9 kg Kits consisting of 4 kg Part A and 5 kg Part B.		
<b>Appearance / Colour</b>	Milky-ivory liquids		
<b>Shelf Life</b>	12 months in unopened pails if stored under below mentioned storage conditions.		
<b>Storage Conditions</b>	Sikagard® P 770 must be stored in unopened, original containers under dry conditions at temperatures between 10 - 25° C preferably. Protect from frost and no permanent storage over +30 °C.		
<b>Density</b>	Part A	~1.25 kg/l	(EN ISO 2811-1)
	Part B	~1.17 kg/l	
	Mixed	~1.2 kg/l	
<b>Viscosity</b>	Part A	~1140 mPas	(EN ISO 3219)
	Part B	~125 mPas	
	Mixed	~650 mPas	

## TECHNICAL INFORMATION

Tensile Adhesion Strength	on concrete at +5°C	≥ 4.0 N/mm <sup>2</sup>	(EN 1542) Primer application only, measured after 7 days curing.
	on concrete at +20°C	≥ 4.0 N/mm <sup>2</sup>	
	on concrete at +30°C	≥ 4.0 N/mm <sup>2</sup>	
	on fully vitrified tiles	≥ 2.0 N/mm <sup>2</sup>	
	on vitrified tiles	≥ 5.0 N/mm <sup>2</sup>	
	on non-vitrified tiles (glazed tiles)	≥ 2.5 N/mm <sup>2</sup>	
	(EN 1542) Primer application only, measured after 7 days curing at +20 °C.		
Permeability to Water Vapour	Coverage 200 g/m <sup>2</sup>	Class III (S <sub>p</sub> = 76 m)	(EN ISO 7783) Primer application only, no additional coating.
	Coverage 400 g/m <sup>2</sup>	Class III (S <sub>p</sub> = 108 m)	
Softening Point	Glass transition temperature after 28 days	109 °C	(EN 12614)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Mixing ratio Part A : Part B (by weight)	approx. 1 : 1.26
	Mixing ratio Part A : Part B (by volume)	approx. 1 : 1.35
Please note that Part B is the bigger part of the mix!		
<b>Consumption</b>	The consumption of Sikagard® P 770 is approximately 0.25 – 0.4 kg/m <sup>2</sup> . This consumption is theoretical and can vary according to the absorption and roughness of the substrate. It is essential to carry out representative trials on site to evaluate the exact consumption.	
<b>Ambient Air Temperature</b>	+5 to +35 °C	
<b>Relative Air Humidity</b>	Not restricted, but no condensation of water on the surface.	
<b>Dew Point</b>	The temperature of the contact surfaces must be at least 3 °C above the	

	ambient dew point temperature.	
<b>Substrate Temperature</b>	+5 to +35 °C	
<b>Substrate Moisture Content</b>	Not restricted, but surface must be visibly dry.	
<b>Pot Life</b>	at +5 °C	~30 min
	at +10 °C	~25 min
	at +20 °C	~20 min
	at +30 °C	~10 min
<b>Curing Time</b>	Fully cured at +10 °C after	7 days
	Fully cured at +20 °C after	5 days
	Fully cured at +30 °C after	2 days
<b>Tack Free Time</b>	After approx. 5 hours at +20 °C.	
<b>Waiting Time / Overcoating</b>	at +10 °C	~11 hours
	at +20 °C	~5 hours
	at +30 °C	~2 hours

## SYSTEM INFORMATION

<b>Compatibility</b>	Bond strength on concrete of system build-ups with the following top coats (after 7 days curing at +20 °C):	
	Sikagard® M 790 (Xolutec)	≥ 2.5 N/mm <sup>2</sup>
	Sikagard® M 391 (epoxy)	≥ 2.5 N/mm <sup>2</sup>
	Sikalastic® M 689 (polyurea, hot-spray)	≥ 3.0 N/mm <sup>2</sup>
	Sikalastic® M 808 (polyurethane)	≥ 2.5 N/mm <sup>2</sup>
	Sikalastic® M 811 (polyurea-hybrid, hot-spray)	≥ 2.5 N/mm <sup>2</sup>
	(EN 1542) For other reactive resin-based coatings not mentioned here, we strongly recommend to conduct compatibility tests – please refer to the respective local technical department.	

## 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

- **For professional use only!**
- Do not apply at temperatures below +5 °C nor above +35 °C
- Eventual separation of Part A can occur – this is no product failure and the material can be easily re-homogenized by mixing.
- Do not dilute Sikagard® P 770 with any solvents.
- **Attention:** unused remains of mixed material can lead to a strong heat development in the pail. Use up all material completely!

## 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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All substrates (new and old) must be structurally sound, dry, free of laitance and loose particles and clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants. Concrete surfaces should be prepared by shot blasting, high-pressure water jetting or other suitable mechanical method. After preparation, concrete and other cementitious substrates must have a minimum pull off strength of 1.5 N/mm<sup>2</sup> (lowest single value 1.0 N/mm<sup>2</sup>). Very rough / irregular substrates on walls should be levelled before application with a suitable fairing coat,

e.g. SikaEmaco® S 5800 DUO or Sika MonoTop®-3020. On floors a suitable repair or levelling solution should be used. It is essential to have all pores closed in mineral substrates before priming.

Wall/Floor connections must be rounded by using suitable products like e.g. SikaTop®-590 Seal, SikaEmaco® S 5440 RS or Sika MonoTop®-3130 Ultra Rapid.

The substrate should be visibly dry - there is no limit to residual humidity. Substrate temperature must be minimum +5 °C and maximum +35 °C. The temperature of the contact surfaces must be at least 3 °C above the ambient dew point temperature.

## MIXING

Sikagard® P 770 is supplied in working kits which are pre-packaged in the exact mixing ratio.

Open the two Parts of the product and briefly mix the single components with a mechanical drill and paddle at low speed (max. 400 rpm) in order to obtain a uniform consistency.

Note: Eventual separation of Part A can occur – this is no product failure and the material can be easily re-homogenized by mixing.

Pour the entire content of Part A into the container of Part B and mix with a mechanical drill and paddle at low speed (max. 400 rpm) for 90 seconds. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles.

Do not mix part packs and do not mix by hand!

**Attention:** unused remains of mixed material can lead to a strong heat development in the pail. Always use up all mixed material completely!

## Scratch Coat Mix:

Add oven dry, fine quartz sand (0.1-0.3 mm) in 1:1 ratio by weight to the mixed Sikagard® P 770 and briefly mix. Then add 1% Sika Extender T by weight (of Sikagard® P 770 + sand) to this mixture to achieve a thixotropic consistency.

Example: 5 kg sand + 5 kg Sikagard® P 770 (A+B mixed) + 100 g of Sika Extender T.

## APPLICATION

After mixing, Sikagard® P 770 is applied to the prepared, smooth substrate by brush or roller. For spray application of Sikagard® P 770 please refer to our Application Manual of Sikagard®-7000 CR.

Sikagard® P 770 dries as an intense transparent film (within 5 hours @ 20° C). In case there are holes not covered by the primer, please apply a second coat of primer. Wait for at least 5 hours (@ 20° C) before applying further coatings like e.g. Sikagard® M 790.

In case the substrate is rough and/or filling of pinholes is required, please apply the scratch coat mixed as described in the mixing instructions. This mix can be easily applied on concrete surfaces by using a steel trowel.

The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions, thus the pot life, open time and curing times are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum. The temperature of the contact surfaces must be at least 3 °C above the ambient dew point temperature.

We recommend overcoating the primer within 48 hours of its application. If this time is exceeded, please contact Sika's local Technical representative.

## CLEANING OF TOOLS

Tools can be cleaned with solvent-based cleaner while still wet. Once cured, the 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. 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](mailto:marketing@hk.sika.com)  
Website: [www.sika.com.hk](http://www.sika.com.hk)



### Product Data Sheet

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