

PRODUCT DATA SHEET

Sikagard® P 770

(formerly MSeal P 770)

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

PRODUCT 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.

WHERE TO USE

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 / CERTIFICATES

- 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

Packaging	Available in: 5 kg (11 lbs) Kits consisting of 2.2 kg (4.8 lbs) Part A and 2.8 kg (6.2 lbs) Part B = 4.17 L (1.1 US gal.) of mixed material 9 kg (19.8 lbs) Kits consisting of 4 kg (8.8 lbs) Part A and 5 kg (11 lbs) Part B = 7.5 L (2.0 US gal.) of mixed material		
Appearance / Colour	Milky-ivory liquids		
Shelf Life	12 months in unopened pails if stored under below mentioned storage conditions.		
Storage Conditions	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.		
Density	Part A	~1.25 kg/L	(EN ISO 2811-1)
	Part B	~1.17 kg/L	
	Mixed	~1.2 kg/L	
Viscosity	Part A	~1140 cps	(EN ISO 3219)
	Part B	~125 cps	
	Mixed	~650 cps	

TECHNICAL INFORMATION

Pull-Off Strength	Primer application only, measured after 7 days curing.		
	on concrete at 5 °C	≥ 4.0 MPa (580 psi)	
	on concrete at 20 °C	≥ 4.0 MPa (580 psi)	
	on concrete at 30 °C	≥ 4.0 MPa (580 psi)	
Softening Point	Glass transition	109 °C	(EN 12614)
	temperature after 28 days		

APPLICATION INFORMATION

Mixing Ratio	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!	
Consumption	The consumption of Sikagard® P 770 is approximately 3 to 4.8 m²/L (122 to 195 ft²/US gal.), approx. 10 mils. 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.	
Ambient Air Temperature	+5 to +35 °C	
Relative Air Humidity	Not restricted, but no condensation of water on the surface.	
Dew Point	The temperature of the contact surfaces must be at least 3 °C above the ambient dew point temperature.	
Substrate Temperature	+5 to +35 °C	
Substrate Moisture Content	Not restricted, but surface must be visibly dry.	

Pot Life	at +5 °C	~30 min
	at +10 °C	~25 min
	at +20 °C	~20 min
	at +30 °C	~10 min
Curing Time	Fully cured at +10 °C after	7 days
	Fully cured at +20 °C after	5 days
	Fully cured at +30 °C after	2 days
Tack-free time	After approx. 5 hours at +20 °C.	
Waiting Time / Overcoating	at +10 °C	~11 hours
	at +20 °C	~5 hours
	at +30 °C	~2 hours

SYSTEMS

Compatibility	Bond strength on concrete of system build-ups with the following top coat (after 7 days curing at +20 °C):	
	Sikagard® M 790 (Xolutec)	≥ 2.5 MPa
	(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

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

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!

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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.
- A minimum concrete surface profile of CSP 2 is required, as per ICRI 310.2.
- Very rough / irregular substrates on walls should be levelled before application with a suitable fairing coat. 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.
- After preparation, concrete and other cementitious substrates must have a minimum pull off strength of 1.5 MPa (lowest single value 1.0 MPa).
- 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.

Steel

Steel surfaces must be sand blasted to a near white metal finish SSPC SP10 (or SA 2½) prior to application of

the product. No primer coat is needed for application of Sikagard® M790 on steel.

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 (mesh #70) 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.

CLEAN UP

Tools can be cleaned with solvent-based cleaner while still wet. Once cured, the material can only be removed mechanically.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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