BUILDING TRUST

PRODUCT DATA SHEET

Sikagard® P 770 N

(formerly MSeal P 770N)

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

DESCRIPTION

Sikagard® P 770 N is a two-component primer based on Xolutec technology, providing long pot life, high substrate penetration and acting as bond promoter for the subsequent Sikagard systems, e.g.Sikagard 7000 CR.

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 prop?erties. 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 com?ponents (VOC), is quick and easy to apply with both spray and hand application depending on require?ments. It cures rapidly even at low temperature, redu?cing application time thus enabling fast return to ser?vice and minimizing downtime. This technology is not sensitive to moisture and tolerates a wide variety of different site conditions, greatly expanding the applic?ation 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 N 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 N is moisture tolerant and can be applied on substrates with high residual humidity.

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / STANDARDS

- Long-term resistance to biogenic sulfuric acid corrosion resistance (Fraunhofer Institute)
- Sika China standard Q/MBCC001—2021

PRODUCT INFORMATION

Packaging	Part A: 4.2kg Part B: 5.8kg 10 kg/set		
Shelf life	12 months in unopened pails if stored under below mentioned storage conditions.		
Storage conditions	Sikagard® P 770 N should be stored in original containers under dry conditions at temperatures between 10 - 25° C preferably. Protect from frost and no permanent storage over +35 °C.		
Appearance / Colour	Milky-ivory liquids		
Density	Part A	1.32 g/cm³	EN ISO 2811-1
	Part B	1.17 g/cm³	
	Mixed	1.23 g/cm³	
Viscosity	Part A	3520 cps	EN ISO 3219
	Part B	200 cps	
	Mixed	650 cps	
Tensile adhesion strength	Adhesion on dry concrete, 1 day curing	≥2.5MPa or concrete failure	GB/T 22374-2018 6.3.9.1
	Adhesion on wet concrete, 1 day curing	≥2.5MPa or concrete failure	GB/T 22374-2018 6.3.9.2
	Adhesion on dry concrete, 7 days curing	≥2.5MPa or concrete failure	GB/T 22374-2018 6.3.9.1
	Adhesion on wet concrete, 7 days curing	≥2.5MPa or concrete failure	GB/T 22374-2018 6.3.9.2

SYSTEM INFORMATION

Compatibility	Bond strength after 7 days curing at +20 °C on subsequent layers of	
	Sikagard M 790 (Xolutec)	≥ 2.5 N/mm²
	Sikalastic M 800 R (polyurea-hybrid,hot-spray)	≥ 2.5 N/mm²
	Sikalastic M 811 (polyurea-hybrid,hot-spray)	≥ 2.5 N/mm²
	Sikalastic M 689 (polyurea, hotspray)	≥ 2.5 N/mm²
	For other reactive resin coatings not mentioned here, we strongly recommend to conduct compatibility tests – please refer to the respective local technical department.	
Product temperature	+5 to +35 °C	
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.	
Pot life	at +5 °C	≥ 60 mins
	at +10 °C	≥ 60 mins
	at +20 °C	~ 55 mins
	at +30 °C	~ 22 mins
Curing time	Fully curing at +10ºC after	7days
	Fully curing at +20ºC after	5 days
	Fully curing at +30ºC after	2 days

Waiting time / Overcoating	at +10 °C	Min. 14 hours	Max. 48 hours
	at +20 °C	Min. 10hours	Max. 48 hours
	at +30 °C	Min. 5 hours	Max. 24 hours

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.

IMPORTANT CONSIDERATIONS

- 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 770N 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

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

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/mm² (lowest single value 1.0N/mm²).
Very rough / irregular substrates on walls should be levelled before application with a suitable fairing coat, e.g. SikaEmaco® N 5100 FC.
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 Series product.
The substrate should be visibly dry. 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

Primer:

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.
Then 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 N and briefly mix.

Then add 1% Sika Extender T by weight (of Sikagard® P 770 N+ sand) to this mixture to achieve a thixotropic consistency. Application thickness max. 2mm.

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

APPLICATION

After mixing, Sikagard® P 770 N is applied to the prepared, smooth substrate by brush or roller. For spray application of Sikagard® P 770 N please refer to our application manual for Sikagard®-7000 CR.
Sikagard® P 770 N dries as an intense transparent film (within 10 hours @ 20° C). In case there are holes not covered by the primer, please apply a second coat of primer. Wait for at least 10 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 cur-

ing 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 maximum re-coating time. If this time is exceeded, please contact Sika's local Technical representative.

CLEANING

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 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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