

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.



Durability by Design

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.

FEATURES

- 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.

CERTIFICATES AND TEST REPORTS

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

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PRODUCT INFORMATION

Dart A: 1 2kg				
-				
-				
Milky-ivory liquids				
12 months in unopened pails if stored under below mentioned storage				
conditions.				
		ferendory. Th		
Part A 1.32 g/cm ³			EN ISO 2811-	
Part B 1.17 g/cm ³				
Mixed 1.23 g/cm ³				
Part A 3520 cps			EN ISO 3219	
Part B	200 cps			
Mixed 650 cps				
Adhesion on dry con-	≥2.5MPa or concrete GB/		2374-2018	
crete, 1 day curing	failure	6.3.9.1	6.3.9.1	
Adhesion on wet con-	≥2.5MPa or concret	e GB/T 22	GB/T 22374-2018	
crete, 1 day curing	failure	6.3.9.2	6.3.9.2	
Adhesion on dry con-	≥2.5MPa or concret	e GB/T 22	GB/T 22374-2018	
crete, 7 days curing	failure	6.3.9.1	6.3.9.1	
Adhesion on wet con-	≥2.5MPa or concret	e GB/T 22	GB/T 22374-2018	
crete, 7 days curing	failure	6.3.9.2	6.3.9.2	
+5 to +35 °C				
+5 to +35 °C				
Not restricted, but no c	ondensation of water	on the surfac	e.	
The temperature of the contact surfaces must be at least 3 °C above the ambient dew point temperature.				
at +5 °C	at +5 °C ≥ 60 mins			
at +10 °C	≥ 60 min			
at +20 °C ~ 55 min		ins		
at +30 °C	at +30 °C ~ 22 mins			
	Fully curing at +10°C after 7days			
Fully curing at +20°C af	ter <u>5 days</u>	5 days		
Fully curing at +30°C after 2 days				
at +10 °C	Min. 14	hours	Max. 48 hours	
at +20 °C		Min. 10hours Ma		
		hours	Max. 24	
	12 months in unopener conditions. Sikagard® P 770 N shoutions at temperatures and no permanent stor Part A Part B Mixed Part B Mixed Adhesion on dry con- crete, 1 day curing Adhesion on wet con- crete, 1 day curing Adhesion on wet con- crete, 7 days curing Adhesion on wet con- crete, 7 days curing Absion on wet con- crete, 7 days curing Adhesion on try con- crete, 7 days curing <td>Part B: 5.8kg 10 kg/setMilky-ivory liquids12 months in unopened pails if stored under conditions.Sikagard® P 770 N should be stored in origina tions at temperatures between 10 - 25° C p and no permanent storage over +35 °C.Part A1.32 g/cm^3Part B1.17 g/cm^3Mixed1.23 g/cm^3Part B200 cpsMixed650 cpsAdhesion on dry con- crete, 1 day curing Adhesion on wet con- crete, 7 days curingAdhesion on try con- crete, 7 daysAdhesion on try con- crete, 7 days<t< td=""><td>Part B: 5.8kg 10 kg/setMilky-ivory liquids12 months in unopened pails if stored under below mentic conditions.Sikagard® P 770 N should be stored in original containers tions at temperatures between 10 - 25° C preferably. Pr and no permanent storage over +35 °C.Part A1.32 g/cm³Part B1.17 g/cm³Mixed1.23 g/cm³Part B200 cpsMixed650 cpsPart B200 cpsMixed650 cpsAdhesion on dry con- crete, 1 day curing failure6.3.9.1Adhesion on wet con- crete, 7 days curing crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.1Adhesion on wet con- crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.2+5 to +35 °C50Hot restricted, but no condensation of water on the surfaceThe temperature of the contact surfaces must be at least 3 ambient dew point temperature.at +5 °C at +30 °C2 60 mins ~ 22 minsfully curing at +10°C after Fully curing at +20°C after7 days S days Fully curing at +30°C aftercuring at +10 °C at +10 °CMin. 14 hours</td></t<></td>	Part B: 5.8kg 10 kg/setMilky-ivory liquids12 months in unopened pails if stored under conditions.Sikagard® P 770 N should be stored in origina tions at temperatures between 10 - 25° C p and no permanent storage over +35 °C.Part A 1.32 g/cm^3 Part B 1.17 g/cm^3 Mixed 1.23 g/cm^3 Part B 200 cps Mixed 650 cps Adhesion on dry con- crete, 1 day curing Adhesion on wet con- crete, 7 days curingAdhesion on try con- crete, 7 daysAdhesion on try con- crete, 7 days <t< td=""><td>Part B: 5.8kg 10 kg/setMilky-ivory liquids12 months in unopened pails if stored under below mentic conditions.Sikagard® P 770 N should be stored in original containers tions at temperatures between 10 - 25° C preferably. Pr and no permanent storage over +35 °C.Part A1.32 g/cm³Part B1.17 g/cm³Mixed1.23 g/cm³Part B200 cpsMixed650 cpsPart B200 cpsMixed650 cpsAdhesion on dry con- crete, 1 day curing failure6.3.9.1Adhesion on wet con- crete, 7 days curing crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.1Adhesion on wet con- crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.2+5 to +35 °C50Hot restricted, but no condensation of water on the surfaceThe temperature of the contact surfaces must be at least 3 ambient dew point temperature.at +5 °C at +30 °C2 60 mins ~ 22 minsfully curing at +10°C after Fully curing at +20°C after7 days S days Fully curing at +30°C aftercuring at +10 °C at +10 °CMin. 14 hours</td></t<>	Part B: 5.8kg 10 kg/setMilky-ivory liquids12 months in unopened pails if stored under below mentic conditions.Sikagard® P 770 N should be stored in original containers tions at temperatures between 10 - 25° C preferably. Pr and no permanent storage over +35 °C.Part A1.32 g/cm³Part B1.17 g/cm³Mixed1.23 g/cm³Part B200 cpsMixed650 cpsPart B200 cpsMixed650 cpsAdhesion on dry con- crete, 1 day curing failure6.3.9.1Adhesion on wet con- crete, 7 days curing crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.1Adhesion on wet con- crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.2Adhesion on wet con- crete, 7 days curing failure6.3.9.2+5 to +35 °C50Hot restricted, but no condensation of water on the surfaceThe temperature of the contact surfaces must be at least 3 ambient dew point temperature.at +5 °C at +30 °C2 60 mins ~ 22 minsfully curing at +10°C after Fully curing at +20°C after7 days S days Fully curing at +30°C aftercuring at +10 °C at +10 °CMin. 14 hours	

SYSTEM INFORMATION

Compatibility

Bond strength after 7 days curing at +20 °C on subsequent layers of

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Sikagard M 790 (Xolutec)	≥ 2.5 N/mm²
Sikalastic M 800 R (polyurea-hy-	≥ 2.5 N/mm²
brid,hot-spray)	
Sikalastic M 811 (polyurea-	≥ 2.5 N/mm ²
hybrid,hot-spray)	
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.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

 \bullet 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 min-

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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 $^{\odot}$ 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 eas-

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ily 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 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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