

Technical Data Sheet
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Sikalastic® -CV (N) (CV Spray)

Sikalastic® -CV (N) Spray (CV Spray)

Ultra fast spray applied polyurethane membrane

Product Description	Sikalastic®-CV Spray (N) is a two part, elastic, 100% solids, ultra fast curing polyurethane spray applied waterproofing membrane for underground structures. Sikalastic® -CV Spray(N) is for machine application only.
Uses	<ul style="list-style-type: none"> ■ For waterproofing applications on steel and concrete: Typical uses: Protection for Civil Engineering Structures ■ Underground concrete structures Typical uses: Protection for Underground concrete structures
Characteristics / Advantages	<ul style="list-style-type: none"> ■ Highly elastic waterproofing membrane ■ Fast reactivity and cure time ■ Almost immediate return-to-service time e.g. 10 min. walking available after the application completion. ■ 100% solids ■ Application by special Spray Mechanical equipment ■ Eco friendly product – non solvent type ■ Seamless membrane
Product Data	
Test	
Approval / Standards	Certification on technical Examination No. 0422 NETIS-registered underground waterproofing method: TH-980010-A Hanshin Expressway registered new technology: HE Public Corporation code 0119900
Form	
Appearance / Colour	ISO - Part A: Clear ~ Light Yellowish Liquid Resin - Part B: Dark Brown Toner – Part C: Grey
Packaging	Part A (net): 200kg UN drum Part B (net): 175kg UN drum Part C (net): 15kg Un Tin
Storage	
Storage Conditions / Shelf-Life	Part A: 6 months Part B: 12 months Part C: 12 months
	From date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +35°C.
Technical Data	
Chemical Base	Polyurethane
Density	Part A: 1.0~ 1.1 kg/litre Part B: 1.029 kg/litre Part C: 1.0~ 1.1 kg/litre All Density values at +23°C
Gel Time	12 ~ 14 seconds at +23°C
Tack Free Time	30 to 60 seconds
Curing Time	120~ 180 seconds at +23°C Ready for Foot traffic: At +10°C: 60 min. At +20°C: 30 min. At +30°C: 30 min.



Solid Content	>99%		
Mechanical / Physical Properties			
Tensile Strength	>13.5 N/mm ²	(JIS K6251)	
Shore A Hardness	87	(JIS K6253)	
Elongation at Break	452%	(JIS K6251)	
Tear strength	65 N/mm ²	(JIS K 6252)	
Water permeability	0.33 MPa	(JIS A 1404, 11.5)	
Resistance to alkali	No bulges, cracks or peels	(JIS K 5400, 8.21)	
Resistance to impact	No cracks or peels	(JIS A 6916, 6.11)	
Resistance			
Chemical Resistance	Sikalastic [®] -CV Spray (N) is resistant to many chemicals. A discolouration may occur when directly exposed to chemicals.		
	Please ask for project related chemical resistance.		
Thermal Resistance			
	Exposure*	Temperature	
	Permanent dry heat	+60°C	
	Permanent wet heat	+60°C	
	*No simultaneous chemical and mechanical exposure.		
Application Details			
Consumption / Dosage			
	Coating System	Product	Consumption
	System for concrete structures	1 x SikaPrimerPW-F	0.2 kg/m ²
		1 x Sikalastic [®] -CV Spray	(2.55 kg/m ²)
		(3-5 x working steps)	0.4 ~ 0.8 kg/m ² /mm
	The performance and technical properties are not affected by UV exposure. Sikalastic [®] -CV Spray(N) is UV light resistant but not colour stable under UV exposure.		
	These figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.		
Substrate Quality			
	The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² .		
	Substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, laitance, mould, grease, coatings and surface treatments, etc.		
	If in doubt apply a test area first.		
Substrate Preparation			
	Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.		
	Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.		
	Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor [®] , Sika [®] MonoTop [®] or Sikagard [®] range of materials.		
	The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.		
	High spots must be removed by e.g. grinding.		
	All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.		
Application Conditions / Limitations			
Substrate Temperature	+5°C min. / +35°C max.		
Ambient Temperature	+5°C min. / +35°C max.		
Relative Air Humidity	85 r.h. max		
Substrate Moisture Content	≤ 4 % pbw moisture content.		
	Test method: Sika [®] -Tramex meter, CM -measurement or Oven-dry-method. No JIS Instruction, No rising moisture according to ASTM (Polyethylene-sheet),		

Dew Point	Beware of condensation! The substrate and uncured coating must be at least 3°C above dew point to reduce the risk of condensation or blooming on the wall finish.																						
Application Instructions																							
Mixing	<p>Part A : Part B + Part C= 1 : 1(by volume)</p> <p>Dose and mix with suitable two-part hot spray equipment. Both components must be heated up to between Part A +62°C and part B. +52 °C. The accuracy of mixing and dosage must be controlled regularly with the equipment.</p> <p>Sikalastic®-CV Spray (N) might not be diluted under any circumstances.</p> <p>Add part C (Sika Toner -PU) to part B and mix properly using a drum mixer until a homogenous mixture and colour is obtained.</p>																						
Application Method / Tools	<p>Prior to application, confirm substrate moisture content, r.h and dew point.</p> <p><i>Primer:</i> Prime prepared concrete with SikaPrimer PW-F. In order to avoid the formation of pinholes, the primer must be brushed into the concrete surface, if necessary in two applications.</p> <p><i>Waterproofing:</i> Spray apply with suitable two-part hot spray high pressure equipment e.g. DFX-70S.</p> <p>The proportioning equipment utilized must be capable of supplying correct pressure and heat for the appropriate hose length on a consistent basis.</p>																						
Waiting Time / Overcoating	<p>Before applying Sikalastic® -CV Spray (N) on SikaPrimer® PW-F allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>2 hours</td> <td>8 hours</td> </tr> <tr> <td>+20°C</td> <td>2 hours</td> <td>6 hours ¹⁾</td> </tr> <tr> <td>+30°C</td> <td>30 minutes</td> <td>6 hours ¹⁾</td> </tr> </tbody> </table> <p>Before applying Sikalastic®-CV Spray (N) on Sikalastic®-CV Spray (N) allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td rowspan="3">60 seconds</td> <td>8 hours ²⁾</td> </tr> <tr> <td>+20°C</td> <td>6 hours ²⁾</td> </tr> <tr> <td>+30°C</td> <td>6 hours ²⁾</td> </tr> </tbody> </table> <p>¹⁾ Assuming that any dirt has been carefully removed and contamination is avoided. ²⁾ If the max. waiting time is exceeded then hand abrade the entire surface using a moderate 200 to 300 grit sandpaper. Clean the grinded surface using Toluene / Xylene as surface activator. For larger areas Sika Sokan Primer-J must be applied as a bonding bridge.</p> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.</p>	Substrate temperature	Minimum	Maximum	+10°C	2 hours	8 hours	+20°C	2 hours	6 hours ¹⁾	+30°C	30 minutes	6 hours ¹⁾	Substrate temperature	Minimum	Maximum	+10°C	60 seconds	8 hours ²⁾	+20°C	6 hours ²⁾	+30°C	6 hours ²⁾
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Notes on Application / Limitations	<p>This product may only be used by experienced professionals. Application by using 2-part hot spray high pressure equipment only. Basic temperature settings are: Part A: +62 °C Part B: +52°C</p> <p>Temperature of the substrate during application and curing: min. +5°C.</p> <p>The performance and technical properties of Sikalastic®-CV Spray (N) are not affected by UV exposure. Sikalastic®-CV Spray (N) is UV light resistant, but not colour stable under UV exposure.</p> <p>Please note: Always apply a test area first.</p>																						

Curing Details

Applied Product ready for use

Temperature	Rain resistant after	Ready for foot ¹⁾ traffic (carefully)	Ready for traffic ²⁾
+5°C	~ 3 minutes	~ 5 minutes	~ 60 minutes
+20°C	~ 2 minutes	~ 3 minutes	~ 45 minutes
+30°C	~ 1 minute	~ 2 minutes	~ 30 minutes

Note:

¹⁾ Only for inspection or for application of the next layer.

²⁾ Only for inspection, application of the next layer Not for permanent traffic.

Times are approximate and will be affected by changing ambient conditions.

Value Base

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.

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.

Health and Safety Information

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 containing physical, ecological, toxicological and other safety-related data.

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 product 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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