Product Data Sheet Edition 2012/01/30

Sikalastic<sup>®</sup>-CV (N) Spray (CV Spray (N))

## Sikalastic<sup>®</sup>-CV (N) Spray (CV Spray (N))

Ultra fast spray applied polyurethane membrane

Product Description	Sikalastic <sup>®</sup> -CV Spray (N)is a two part, elastic, 100% solids, ultra fast curing polyurethane spray applied waterproofing membrane for underground structure Sikalastic <sup>®</sup> -CV Spray(N) is for machine application only.				
Uses	For waterproofing applications on steel and concrete:				
	Typical uses: Protection for Civil Engineering Structures <ul> <li>Underground concrete structures</li> </ul>				
	Typical uses: Protection for Underground concrete structures				
Characteristics /	Highly elastic waterproofing membrane				
Advantages	Fast reactivity and cure time				
_	<ul> <li>Almost immediate return-to-service time e.g. 10 min. walking available after the application completion.</li> </ul>				
	■ 100% solids				
	<ul> <li>Application by special Spray Mechanical equipment</li> <li>Eco friendly product – non solvent type</li> </ul>				
	Seamless membrane				
Product Data					
Test					
	Certification on technical Examination No. 0422				
Approval / Standards	NETIS-registered underground waterproofing method: TH-980010-A Hanshin Expressway registered new technology: HE Public Corporation code 0119900				
Form					
Appearance / Colours					
	ISO - Part A: Clear ~ Light Yellowish Liquid Resin - Part B: Dark Brown Toner – Part C: Grey				



Storage					
Storage Conditions / Shelf Life	Part A: Part B: Part C:	6 months 12 months 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 + <del>30</del> 35°C.				
Technical Data					
Chemical Base	Polyurethane				
Density	Part A:	1.0~ 1.1 kg/litre			
	Part B: Part C:	1.029 kg/litre 1.0~ 1.1 kg/litre			
		lues at +23°C			
Gel Time	12 ~ 14 secor				
Tack Free Time	30 to 60 seco	nds			
Curing Time	120~ 180 sec	120~ 180 seconds at +23°C			
-	Ready for Foo	Ready for Foot traffic:			
	At +10°C: 60	At +10°C: 60 min.			
	At +20°C: 30	At +20°C: 30 min.			
	At +30°C: 30 min.				
Solid Content	> 99%				
Mechanical / Physical Properties					
Tensile Strength	>13.5 N/mm <sup>2</sup>		(JIS K6251)		
Shore A Hardness	87		(JIS K6253)		
Elongation at Break	452%		(JIS K6251)		
Tear strength	65 N/mm <sup>2</sup>	65 N/mm <sup>2</sup> (JIS K			
Water permeability	0.33 MPa		(JIS A 1404, 11.5)		
Resistance to alkali	No bulges, cracks or peels (JIS K 5400, 8.2				
Resistance to impact	No cracks or	peels	(JIS A 6916, 6.11		
Resistance					
Chemical Resistance	Sikalastic <sup>®</sup> -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 simultaneo	ous chemical and mechanical e	exposure.		

## Application Details

Consumption / Dosage						
	Coating System	Product	Consumption			
	System for concrete structures	1 x SikaPrimer PW-F	0.2 kg/m <sup>2</sup>			
		1 x Sikalastic <sup>®</sup> -CV Spray	(2.55 kg/m²)			
		(3-5 x working steps)	0.4 ~ 0.8 kg/m <sup>2</sup> /mm			
		echnical properties are not affecte ) is UV light resistant, but not col				
		These figures are theoretical and do not allow for any additional material 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 <sup>2</sup> ) with a minimum pull off strength of 1.5 N/mm <sup>2</sup> .					
		The substrate must be clean, dry and free of all contaminants such as dirt, oil, 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 must be fully exposed.	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 <sup>®</sup> , Sika <sup>®</sup> MonoTop <sup>®</sup> or Sikagard <sup>®</sup> 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.	+5°C min. / +35°C max.				
Ambient Temperature	+5°C min. / +35°C max.	+5°C min. / +35°C max.				
Relative Air Humidity	85% RH max.					
Substrate Moisture	<u>&lt;</u> 4 % pbw moisture cor	ntent.				
Content	Test method: Sika <sup>®</sup> -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 membrane must be at least 3°C above dew point to reduce the risk of condensation or blooming of the membrane finish.					
Application Instructions						
Mixing	Part A : Part B+Part C = 1 : 1 (by volume)					
	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.					
	equipment.					
		I) might not be diluted under any	circumstances.			

Application Method /	Prior to application, confirm substrate moisture content, r.h and dew point.			
Tools	<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.			
	Waterproofing:			
	Spray apply with suitable two-part hot spray high pressure equipment e.g. DFX- 70S.			
	The proportioning equipment utilized must be capable of supplying correct pressure and heat for the appropriate hose length on a consistent basis.			
Cleaning of Tools	Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically			
Waiting Time / Over	Before applying Sikalastic <sup>®</sup> -C	V Spray (N) on SikaPrimer	<sup>®</sup> PW-F allow:	
coating	Substrate temperature	Minimum	Maximum	
	+10°C	2 hours	8 hours	
	+20°C	2 hours	6 hours <sup>1</sup> )	
	+30°C	30 minutes	6 hours <sup>1</sup> )	
	Before applying Sikalastic <sup>®</sup> -C Substrate temperature	V Spray (N) on Sikalastic <sup>®</sup> - Minimum	CV Spray (N) allow: Maximum	
	+10°C	winintani	8 hours <sup>2</sup> )	
	+20°C	60 seconds	6 hours <sup>2</sup> )	
	+30°C		6 hours <sup>2</sup> )	
	<ul> <li><sup>1)</sup> Assuming that any dirt has been carefully removed and contamination is avoided.</li> <li><sup>2)</sup> 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.</li> <li>Times are approximate and will be affected by changing ambient conditions</li> </ul>			
	Xylene as surface activato applied as a bonding bridge.	r. For larger areas Sika Sol	surface using Toluene / kan Primer-J must be	
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Notes on Application /	Xylene as surface activato applied as a bonding bridge. Times are approximate and w	r. For larger areas Sika Sol vill be affected by changing relative humidity.	surface using Toluene / kan Primer-J must be ambient conditions	
Notes on Application / Limitations	Xylene as surface activato applied as a bonding bridge. Times are approximate and w particularly temperature and r	r. For larger areas Sika Sol vill be affected by changing relative humidity. d by experienced professio	surface using Toluene / kan Primer-J must be ambient conditions nals.	
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• •	Xylene as surface activato applied as a bonding bridge. Times are approximate and w particularly temperature and r This product may only be use Application by using 2-part ho temperature settings are: Part A: +62 °C Part B: +52°C	r. For larger areas Sika Sol vill be affected by changing relative humidity. d by experienced profession of spray high pressure equip during application and curi al properties of Sikalastic <sup>®</sup> - alastic <sup>®</sup> -CV Spray (N) is UN	surface using Toluene / kan Primer-J must be ambient conditions nals. oment only. Basic ng: min. +5°C. CV Spray (N) are not	

## **Curing Details**

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Applied Product ready for use	Temperature	Rain resistant after	Ready for foot <sup>1)</sup> traffic	Ready for traffic <sup>2)</sup>	
			(carefully)		
	+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: <sup>1)</sup> Only for inspection or for application of the next layer. <sup>2)</sup> Only for inspection, application of the next layer Not for permanent traffic.				
	Times are approximation	ate and will be affecte	ed by changing ambier	it 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 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.				



Sika Services AG Speckstr. 22 CH-8330 Pfäffikon Switzerland

Phone +41 58 436 2368 Telefax +41 58 436 2377 www.sika.com

