

Sikalastic[®]-CV Spray (CV Spray)

Ultra fast spray applied polyurethane membrane

	Product Description	Sikalastic [®] -C polyurethane Sikalastic [®] -(
	Uses	 For water Typical us Undergrow Typical us
SUUC	Characteristics / Advantages	 Highly ela Fast react Almost im applicatio 100% soli Applicatio Eco-frience Seamless
	Product Data	
	Test Approval / Standards	Certification

Product Description	Sikalastic [®] -CV Spray is a two-part, elastic, 100% solids, ultra fast curing polyurethane spray applied waterproofing membrane for underground structures. Sikalastic [®] -CV Spray is for machine application only.		
lses	For waterproofing applications on steel and concrete: Typical uses: Protection for Civil Engineering Structures		
	Underground concrete structures		
	Typical uses: Protection for Underground concrete structures		
haracteristics /	Highly elastic waterproofing membrane		
dvantages	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		

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 / Colours	ISO - Part A: Resin - Part B: Toner – Part C:	Clear ~ Light Yellowish Liquid Dark Brown Grey	
Packaging	Part A (net): Part B (net): Part C (net):	200kg drum 175kg drum 15kg tin	



Storage			
Storage Conditions / Shelf Life	Part A: 6 months Part B & 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. Keep away from direct sunlight.		
Technical Data			
Chemical Base	Polyurethane		
Density	Part A: $1.0 \sim 1.1$ kg/litrePart B: $1.0 \sim 1.1$ kg/litrePart C: $1.0 \sim 1.1$ kg/litreAll 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	> 7.5 N/mm ²	(JIS K6251)	
Shore A Hardness	80	(JIS K6253)	
Elongation at Break	350%	(JIS K6251)	
Tear strength	40 N/mm ² (JIS K 6252		
Water permeability	0.49 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.		
Resistance			
Chemical Resistance	Sikalastic [®] -CV Spray 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.

Coating System	Product	Consumption		
System for concrete	1 x SikaPrimer PW-F	0.2 kg/m ²		
structures	1 x Sikalastic [®] -CV Spray	(2.55 kg/m²)		
	(3-5x working steps)	0.4 ~ 0.8 kg/m ² /mm		
The performance and techr Sikalastic [®] -CV Spray is UV	nical properties are not affected light resistant, but not colour s	l by UV exposure. table under UV exposure.		
These figures are theoretical and do not allow for any additional material due surface porosity, surface profile, variations in level and wastage, etc.				
The concrete substrate mu (minimum 25 N/mm ²) with a	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 .			
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.				
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 void 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.				
+5°C min. / +35°C max.				
+5°C min. / +35°C max.				
85% RH max.				
≤ 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),				
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.				
	Coating System System for concrete structures The performance and techn Sikalastic®-CV Spray is UV These figures are theoretical surface porosity, surface prime surface porosity, surface prime substrate must be clear grease, coatings and surface. The substrate must be clear grease, coatings and surface. Weak concrete substrates must be fully exposed. Repairs to the substrate, fill carried out using appropriate Sikagard® range of materiaa The concrete or screed subterer must be fully exposed. Repairs to the substrate, fill carried out using appropriate Sikagard® range of materiaa The concrete or screed subterer must be fully exposed. High spots must be removed. All dust, loose and friable method: sika@-Trames. +5°C min. / +35°C max. +5°C min. / +35°C max. 85% RH max. ≤ 4 % pbw moisture conterer Test method: Sika@-Trames Instruction, no rising moisture Beware of condensation! The substrate and uncured reduce the risk of condensation!	Coating System Product System for concrete structures 1 x SikaPrimer PW-F 1 x Sikalastic®-CV Spray (3-5x working steps) The performance and technical properties are not affected Sikalastic®-CV Spray is UV light resistant, but not colour s These figures are theoretical and do not allow for any add surface porosity, surface profile, variations in level and way The concrete substrate must be sound and of sufficient or (minimum 25 N/mm²) with a minimum pull off strength of 1 The substrate must be clean, dry and free of all contamina grease, coatings and surface treatments, etc. If in doubt, apply a test area first. Concrete substrates must be prepared mechanically using or scarifying equipment to remove cement laitance and ac surface. Weak concrete must be removed and surface defects suc- must be fully exposed. Repairs to the substrate, filling of blowholes/voids and sur- carried out using appropriate products from the Sikafloor® Sikagard® range of materials. The concrete or screed substrate has to be primed or level even surface. High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely rem before application of the product, preferably by brush and +5°C min. / +35°C max. +5°C min. / +35°C max. ≤4 % pbw moisture content. Test method: Sika®-Tramex meter, CM - measurement or Instruction, no rising moisture according to ASTM (Polyett) Beware of condensation!		

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.			
Sikalastic [®] -CV Spray might not be diluted under any circumstances.				
	Add part C (Sika Toner -PU) to part B and mix properly using a drum mixer u homogenous mixture and colour is obtained.			
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 equipmer and heat for the appropriate	nt utilized must be capable of hose length on a consistent	supplying correct pressure 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 [®] -	CV Spray on SikaPrimer [®] PV	V-F allow:	
coating	Substrate temperature	Minimum	Maximum	
	+10°C	2 hours	8 hours	
	+20°C	2 hours	6 hours ¹)	
	+30°C	30 minutes	6 hours ¹)	
	Before applying Sikalastic [®] -CV Spray on Sikalastic [®] -CV Spray allow:			
	Substrate temperature	Minimum	Maximum	
	+10°C		8 hours ²)	
	+20°C	60 seconds	6 hours ²)	
	+30°C		6 hours ²)	
	 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. Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. 			
Notes on Application /	This product may only be us	sed by experienced professio	nals.	
Limitations	Application by using 2-part hot spray high pressure equipment only. Basic temperature settings are: Part A: +62 °C Part B: +52°C			
	Temperature of the substrate during application and curing: min. +5°C.			
	The performance and technical properties of Sikalastic [®] -CV Spray are not affected by UV exposure. Sikalastic [®] -CV Spray is UV light resistant, but not colour stable under UV exposure.			
Please note: Always apply a test area first.				

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.				
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.				



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