BUILDING TRUST CONSTRUIRE LA CONFIANCE



PRODUCT DATA SHEET

Edition 12.2017/v1 CSC Master Format™ 07 92 13 ELASTOMERIC JOINT SEALANTS

Sikasil®-728 NS

HIGHWAY/PARKING GARAGE GRADE, NON-SAG, ULTRA-LOW MODULUS AND NEUTRAL-CURE SILICONE SEALANT

Description	Sikasil®-728 NS is an ultra-low modulus, one-component, non-sag, neutral-cure and elastomeric silicone sealant. It i formulated to be suitable for areas subject to traffic, including highway and parking garage joint sealing.								
Where to Use	 Highway, bridge and parkade jc Stadiums. Plaza decks. Driveways and decks. Expansion and saw cut joints. 								
Advantages	 May be applied with ease in all seasons and ideal for cold climates. Ready to use, higher productivity providing labour cost reductions. Bonds to most substrates without priming on concrete and also adheres to steel, glass, aluminium, tile, fibreglass plastic, ceramic, masonry, brick, stone, granite and wood. Good contact/adhesion with hard to reach areas. Excellent flexibility in extremely high and low temperature conditions. Capable of accommodating +100,-50 % joint movement. Extremely long service life. Meets the requirements of ASTM D5893; ASTM C920, Type S, Grade NS, Class 100/50, Use NT, T,M,G,A,O with Ultra low Shore Hardness; TT-S-00230C, Type II, Class A; TT-S-001543A, Class A and California Air Resources Board 200 requirements for VOC content. 								
	 Approved for use by Alberta Trans 	ansportation							
	Technical Data Packaging	858 mL (29 US oz) cartridge, 12/case <i>(Limestone only)</i> 17 L (4.5 US gal.) in 18,9 L (5 US gal.) pail 197 L (52 US gal.) in 200 L (55 US gal.) drum							
	Colour								
	Yield	Width mm (in) 6 (1/4) 13 (1/2) 19 (3/4)	Linear m Depth 6 (1/4) 24,8 12,4 8,3	<u>eters per litre</u> 13 (1/2) 6,2 4,1	Depth	eet per US gallon 13 (1/2) 77 51			
	Shelf Life	12 months in original, unopened containers when stored at or below 32 °C (90 °F). A product skin may forr in the container, remove before use.							
	Application Temperature	Sealant may be applied in below freezing temperatures, but surfaces must be dry, frost free and clean. Sealant should be installed when the joint is at mid-range of its anticipated movement.							
	Service Temperature	-62.2 to 176 °C (-80 to 350 °F)							
	Properties at 25 °C (77 °F) and 5 <u>Uncured Material</u> Extrusion Rate g/min ASTM C1183 mod.	0 % R.H.							
	3 mm (1/8 in) orifice @ 0.34 MPa (50 psi) Sealant Slump ASTM D2202								
	Rheological, Vertical ASTM C639 @ 49 °C (120 °F) Skin-Over Time	Non-sag 15 min							
	Tack-Free Time ASTM C679 30 min Cure Rate 1.5 mm (1/16 in) / 24 hrs								
	Cured Material (21 days @ 25 °C (77 °F) and Movement Capability ASTM C719 Elongation at Break ASTM D412	bility ASTM C719 +100/-50 %							
	100% Modulus ASTM D412	0.24 MPa (3	35 psi)						

		5-10 1.03 MPa (150 psi) 7.2 kg/cm (40 pli) average No change d under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment,				
	preparation, application, curing and test methods.					
HOW TO USE Joint Detailing	The number of joints and the joint width should be designed for a recommended joint movement of 50 % and -25 % a time of installation.					
	The depth of the sealant should be 1/2 the width of the joint. The minimum sealant depth is 9 mm (3/8 in), the maximum is 13 mm (1/2 in). For joints greater than 25 mm 1 in), do not exceed 13 mm (1/2 in) depth					
	Closed cell backer rod should be 2	depth, use a closed cell polyethylene, non-gassing polyolefin or open cell polyurethane backer rod d should be 25 % larger than joint width; do not compress more than 40 %. Open cell should be not use open cell rod in horizontal on grade joints.				
	If the joint depth does not allow for	r a backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion.				
Surface Preparation	All joint surfaces must be clean, sound, dry, and frost free. Joint walls must be free of oils, asphalt, tar, bituminous materials, grease, paints, coatings or sealers. Curing compounds, release agent residues, glazing compounds, and an other foreign matter must be removed.					
	Porous substrates should be cleaned by mechanical methods, such as grinding, saw cutting, blast cleaning (sand o water), or wire brushing. Dust, loose particles, etc. should be blown out of joints with oil-free compressed air or vacuun cleaned to remove all material which may interfere with adhesion.					
	Non-porous substrates should be cleaned by using a solvent wipe method, applied by lint free and clean rags and allo the solvent to evaporate before installing the sealant. Xylene or an approved commercial solvent can be used, ensuring the solvent manufacturer's instructions are strictly followed. Soap or detergent and water cleaning treatments are not recommended. Cleaning of all surfaces should be done just prior to the sealant application.					
	Apply Sikasil [®] -728 NS only to suitably prepared and cleaned substrates. Long term adhesion and performance is dependant upon such.					
Priming	Sikasil®-728 NS is designed to obtain adhesion without the use of a primer, however, certain substrates may require primer. A field test is recommended to determine the adhesion of the sealant and/or primer and sealant combination, t confirm results and the suitability of the proposed application. Consult Sikasil® Primer Data Sheets or contact Sika Canad Technical Services for additional information on priming.					
	NOTE: Priming is never a substitute	for proper surface cleaning and preparation.				
Application	For best performance Sikasil [®] -728 NS should be gunned into joints when the joint slot is at the mid-point of its designed expansion and contraction.					
	Do not open the product container until preparation and, where necessary, priming work has been completed.					
	Apply the sealant so that it is recessed 3 mm (1/8 in) below the surface. For parking deck joints, recess 6 mm (1/4 in) For highway joints, recess 13 mm (1/2 in).					
	When installing during time of large temperature fluctuations, such as spring or fall, and in joints designed for movement greater than ±25 %, be aware that significant joint movement before cure, may cause aesthetic issues such as ripples in the sealant surface. Performance will not be affected.					
	Apply the sealant using a professional caulking gun or dispensing equipment. Place the nozzle deep into the joint and gur with a steady and even flow of sealant preceding the nozzle to avoid air entrapment. Also avoid overlapping of the sealan as this also entraps air. Extrude in one continuous operation with consistent positive pressure to force the material into the joint.					
	Tool the sealant at once after application and before a skin forms (approximately 15 minutes). Tool to a concave shape and ensure adequate pressure to achieve maximum adhesion with the joint walls. Dry tooling is recommended.					
	Note: Do not use or spray water or	other liquids when tooling.				



 Contact Sika Canada Technical Services for use in joints greater than 7 Do not apply when substrate temperatures are below -28 °C (-20 °F) of Lower temperature and humidity will extend tack free and cure rates. Do not apply to damp or wet surfaces. Substrates must be completely dry, frost free, and clean. 	75 mm (3 in). or above 54 °C (130 °F).	r.			
 Substrates must be completely dry, frost free, and clean. Do not apply to surfaces that are to be painted, as the sealant surface will not hold paint. Do not apply to substrates that bleed oil, plasticizers or solvent. Do not allow the uncured sealant to come in contact with solvent or curing polyurethanes. Avoid contact with materials or surfaces impregnated with, or containing, oil, asphalt, tar, or bituminous r Contact Sika Canada Technical Services for use in contact with asphalt. This material is not intended for immersion. Brass and copper may be discoloured through contact: apply a sample prior to application. Test sensitive substrates, such as mirror backings for compatibility before use. Allow treated wood to age for at least six months before application of the sealant. 					
For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data. KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY 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, within their shellifie. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from ters 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 or may be downloaded from our website at: www.sika.ca SIKA CANADA INC. Head Office Other locations Toronto Toron					
	 Do not allow the uncured sealant to come in contact with solvent or of Avoid contact with materials or surfaces impregnated with, or contac Contact Sika Canada Technical Services for use in contact with aspha This material is not intended for immersion. Brass and copper may be discoloured through contact: apply a sample Test sensitive substrates, such as mirror backings for compatibility be Allow treated wood to age for at least six months before application of For information and advice on the safe handling, storage and disposal most recent SAFETY DATA SHEET containing physical, ecological, toxico KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY The Information, and in particular, the recommendations relating to the application and end-use of Sika preserience of the products when properly stored, handled and applied under normal conditions, within their site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, inferred either from this information, or from any other advice offered. The proprietary rights of third parties must be and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product Data Data Sheet for the product Data Data Sheet for the product Data Sheet for the product	 Do not allow the uncured sealant to come in contact with solvent or curing polyurethanes. Avoid contact with materials or surfaces impregnated with, or containing, oil, asphalt, tar, or bituminou contact Sika Canada Technical Services for use in contact with asphalt. This material is not intended for immersion. Brass and copper may be discoloured through contact: apply a sample prior to application. Test sensitive substrates, such as mirror backings for compatibility before use. Allow treated wood to age for at least six months before application of the sealant. For information and advice on the safe handling, storage and disposal of chemical products, users should most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY 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 systee 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 wh inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user form testing them for the intended application and purpose. The province offered are accepted. All orders are accepted subject to our curre 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 redownloaded from our website at: www.sika.ca SIKA CANADA INC. Pointe-Claire, Quebec Other locations Toronto Toron			

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