Sikasil[®]728 NS

Non-sag, ultra low modulus, neutral cure silicone sealant for pavements

Description			t, ultra low modulus elastomeric avements according to ASTM [
Uses	HighwaysAirports			
	Bridges			
	Parking structure			
	Expansion joints			
	Saw cut joints			
Characteristics /	Ready to use			
Advantages		nent capability (ASTM C-		
			gh and low temperature climes	
		sion, especially to concretervice life due the outstan		
Approval / Standards	Meets the requirem ASTM D-5893; ASTM C-920, Type	ents of S, Grade NS, Class 100		
	TT-S-00230C, Type	e I; Class A;		
	TT-S-001543A, Cla	iss A		
Environmental Information				
Specific Characteristics	VOC Content 1,64	% by wt		
o 1/1 - 11				
Specific Ratings	LEED [®] EQc 4.1	SCAQMD, Rule 1168	BAAQMD, Reg. 8, Rule 51	
Specific Ratings	LEED [®] EQc 4.1 passes	SCAQMD, Rule 1168 passes	BAAQMD, Reg. 8, Rule 51 passes	
Product Data				
Product Data	passes	passes		
Product Data	passes Limestone and Char 17 litre pail	passes		
Product Data Form Colours	passes Limestone and Char 17 litre pail 197 litre drum	passes rcoal Gray		
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Product Data Form Colours	passes Limestone and Char 17 litre pail 197 litre drum	passes rcoal Gray		
Product Data Form Colours Packaging	passes Limestone and Char 17 litre pail 197 litre drum Special packaging a 12 months from dat	passes rcoal Gray available upon request te of production if stored i in dry conditions and prot		

Chemical Base	1-part, neutral curing silicone.	
Density	~ 1.28 kg/l	(DIN 53 479)
Skinning Time	~ 2.5 minutes (+23°C / 50% r.h.)	
Curing Rate	~ 4.0 mm / 24 h (+23°C / 50% r.h.)	
Joint Dimensions	Min. width = 10 mm / max width = 25	mm
Sag Flow	0 mm	(DIN EN ISO 7390)
Service Temperature	-60°C to +170°C	
Mechanical / Physical Properties		
Tensile strength	~ 0.7 N/mm ²	(ASTM D 412)
Tear Strength	~ 3,0 N/mm	(DIN 53 515)
Shore 00 Hardness	~ 40	(ASTM C 661 & ASTM D 2240)
Shore A Hardness	~ 3	(DIN 53 505)(ASTM C 661 & ASTM D 2240)
E-Modulus	~ ~ 0.2 N/mm ² at 100% elongation	(DIN EN ISO 8340)
100% Modulus	~ 0.25 N/mm ²	(ASTM D 412
Elongation at Break	~ 1000 %	(ASTM D 412)
Elongation at Break	~ 9000 %	(DIN 53 504)
Resistance		
Chemical Resistance	Resistant to water, road salts, seawat dispersed detergent.	er, diluted alkalis, cement grout and water
	Temporary resistant against jet fuel s	pillage

Not resistant to alcohols, organic acids, concentrated alkalis and concentrated acids, chlorinated hydrocarbons.

System Information

Application Details

Consumption / Joint Design	Joints: The joint width must be designed for a recommended movement capability of +/-25% at time of installation. In general the joint width must be between 10 mm minimum and 25 mm maximum. The depth of the sealant should be 0,5-0,8 of the width of the joint. The maximum depth is 13 mm and the minimum is 10 mm. The silicone sealant joint must be recessed: 13 mm for highway and airport joints or 6 mm for joints in car parks since Sikasil [®] -728 NS is not trafficable. For floor joint sealing in industrial floors or flush joints in pedestrian areas please use Sikaflex [®] - PRO or Sikaflex [®] -11FC instead.
	Joints with a width of less than 10 mm are for crack control and therefore non

movement joints. Relevant is the joint width at the time of application of the sealant (guide value of $+ 10^{\circ}$ C).

For a temperature differential of 40°C:

Joint distance	2 m	4 m	6 m	8 m	10 m
Min. joint width	10 mm	10 mm	10 mm	15 mm	20 mm
Thickness of sealant	10 mm	10 mm	10 mm	12 mm	13 mm

For a temperature differential of 80°C

Joint distance	2 m	4 m	5 m	6 m
Min. joint width	10 mm	15 mm	18 mm	20 mm
Thickness of sealant	10 mm	12 mm	13 mm	13 mm

All joints must be properly designed and dimensioned by the specifier and the main contractor in accordance with the relevant standards, because changes are usually not feasible after construction. The basis for calculation of the necessary joint width is the technical values of the joint sealant and the adjacent building materials, plus the exposure of the building, its method of construction and its dimensions

Backing: Use only closed cell, polyethylene foam backing rods.

Substrate Quality	Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed
Substrate Preparation / Priming	Sikaflex [®] -728 NS generally has strong adhesion to most clean, sound substrates. For optimum adhesion and critical, high performance applications for high stress bonding joints or in case of extreme weather exposure substrate primers and cleaners must be used. If in doubt apply product in test area first.
	<i>Non porous substrates:</i> Aluminium, anodised aluminium, stainless steel and galvanised steel have to be cleaned with a fine abrasive pad and Sika [®] Aktivator-205 by using a clean towel or cloth. Before sealing allow a flash off time of at least 15 min.
	Asphalt (saw cut):
	Due to the various types of asphalt pre -trials have to be performed prior any application. In case of any questions please contact the Technical Service Department of Sika. Sikasil [®] -728 NS is unsuitable for direct use on uncut asphalt.
	Porous substrates: For best performance concrete should be primed with Sika [®] Primer-3 N by using a brush.
	Before sealing allow a flash-off time of at least 30 minutes (max. 8 hours).
	Important note: Primers are only adhesion promoters. They neither substitute for the correct cleaning of the surface nor improve their strength significantly.
	Primers improve long term performance of a sealed joint. For further information please refer to the Sika $^{\ensuremath{\mathbb{R}}}$ Primer table.
Application Conditions / Limitations	
Substrate Temperature	+5°C min. / +40°C max.
Ambient Temperature	+5°C min. / +40°C max.
Substrate Moisture Content	Dry
Dew Point	Substrate temperature must be 3°C above dew point.
Application Instructions	
Application Method / Tools	Sikasil [®] 728 NS is supplied ready to use . After suitable joint and substrate preparation, insert Backing Rod to required depth and apply primer if necessary. Firmly extrude Sikasil [®] 728 NS into joint making sure that it is full contact with the side of the joint. Fill the joint, avoiding air entrapment. trapment.
Cleaning of Tools	Clean all tools and application equipment with Sika [®] Remover-208 immediately after use. Hardened (cured) material can only be removed mechanically.

	Notes on Application / Limitations
	Health and Safety Information
ruction	Important Notification
Const	



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Do not allow sealant to come in contact with solvent during cure.

Do not apply to substrates that bleed oils, plasticizers or solvents.

in pedestrian areas please use Sikaflex[®] -PRO or Sikaflex[®] -11FC.

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

Do not use for structural glazing

supplied on request.

Do not allow sealant to come in contact with curing polyurethane sealants during cure.

Bleeding can occur on porous substrates such as concrete, marble, granite and other natural stones. On sensitive substrates, specific pretesting must be carried out.

Sikasil[®]-728 NS is not trafficable. For floor joint sealing in industrial floors or flush joints

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.

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

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

Do not use for permanent water immersion and sealing of swimming pools.



