Jika®

BUILDING TRUST

PRODUCT DATA SHEET

Sikasil[®]-728 RCS

Two-part, self-leveling, rapid cure, ultra low modulus, horizontal application, neutral cure silicone sealant

PRODUCT DESCRIPTION

Sikasil[®]-728 RCS (Rapid Cure System) is a self-leveling, two-component, very rapid cure, ultra low modulus elastomeric, neutral cure silicone sealant. Exceeds the requirements of ASTM C-920, Type M, Grade P, Class 100/50, Use T, M, G, A, O; TT-S-00227E, Type I, and various AASHTO reports and state DOT approvals.

USES

Construction Application

- Horizontal expansion joints
- Highway and bridge joints
- Saw cut joints new and remedial
- Plaza decks
- Parking decks
- Bridges
- Airports
- Stadiums
- Driveways

Location

- Horizontal
- Interior and exterior
- Above grade or on grade

Substrate

 Concrete, steel, glass, aluminum, tile, ceramic, masonry, brick, stone and granite

PRODUCT INFORMATION

Packaging40 fl. oz. unit - 2 20 oz. sausages/20 per case;
9 gal. unit (34.11 L) – 2 pails each containing 4.5 gal. (17 L);
104 gal. unit (394.16 L) –2 drums each containing 52 gal. (197.08 L)

Color

Limestone and Charcoal Gray (when Part A, dark gray and Part B, white, are

 Product Data Sheet

 Sikasil®-728 RCS

 February 2021, Version 01.02

 02051506000000001

1/4

CHARACTERISTICS / ADVANTAGES

- No tooling, less labor
- Excellent flexibility for extreme high and low temperature conditions
- Excellent flexibility for dynamic joint movement
- Bonds to most substrates without priming
- Open to traffic in one hour
- All season ease of application
- Good contact/adhesion with hard to reach areas
- Ideal for cold climates
- Excellent for use on runways and tarmacs
- Jet fuel resistant
- Resistant to road salts

	mixed).					
Shelf Life	When stored in the original, unopened containers at or below 90 °F (32 °C), shelf life is one year. A product skin may form in pails and drums, remove prior to use					
Storage Conditions	Store in unopened containers at temperatures at or below 90 °F (32 °C)					
Volatile organic compound (VOC) con- tent	2.4 % by wt., 30 g/l, 0.25 lb./gal					
TECHNICAL INFORMATION						
Shore Hardness	50 ± 5 4 - 6	Shore OO Shore A	(7 days at 77º F (25º C), 50% R.H.) (ASTM C-661 & ASTM D- 2240)			
Tensile Strength	70 psi (0.48 MPa)	(7 days, at 77 °F (25 °C) and 50 % R.H.) (ASTM D-412				
Secant Tensile Modulus	5	(7 days, at 77 °F (25 °C) and 50 % R.H.) (ASTM D-5329 [a] [b]) (100 % elongation)				
Tensile stress at specified elongation	25 psi (0.17 MPa)	(7 days, at 100 % and 77 °F (25 °C) and 50 % R.H.) (ASTM D-412				
Elongation	725 %	(7 days, at 77 °F (25 °C) and 50 % R.H.) (ASTM D-5329 [a] [b])				
Elongation at Break	> 1000 %	(7 days, at 77 °F (25 °C) and 50 % R.H.) (ASTM D-412)				
Adhesion in peel	30 pli	(7 days, at 77 °F (25 °C) and 50 % R.H.) (glass, aluminum and concrete) (ASTM C-794)				
Movement Capability	+100 %, -50 %	(7 days, at 77 °F (25 °C) and 50 % R.H.) (ASTM C-719) (glass, aluminum and concrete				
Resistance to Weathering	Excellent					
Service Temperature	-80–350 °F (-62.2–176.6 °C)					
Joint Design	The number of joints and the joint width may be designed for high movement capability. For joints one to three inches in width, the sealant will accept movements +100% and -50% and for three to four inches in width, the sealant will accept movements of \pm 50% of joint width at time of installation. The depth of the sealant should be 1/2 the width of the joint. The minimum depth is 1/4 inch (6 mm) and the maximum is 1/2 inch (12 mm). For joints greater than 1 inch (25.4 mm), do not exceed 1/2 inch (6 mm) in depth.					
Extrusion rate	50 g/min. 1/8" orifice @ 50 psi Specific Gravity(ASTM C-1183 modified1.25 - 1.35Type S					

APPLICATION INFORMATION

Coverage	40 oz Sausage: Yield in Linear feet				
	Width/Depth	1/4"	3/8"	1/2"	
	1/4"	96.2			
	3/8"	64.2	42.8		
	1/2"	48.2	32.0	24.0	
	3/4"	32.0	21.4	16.0	
	1"			12.0	
	1.25"			9.6	
	1.5"			8.0	

Product Data Sheet Sikasil^e-728 RCS February 2021, Version 01.02 020515060000000001



	I gallon: field in	Linear leet				
	Width/Depth	1/4" 307.9 205.3 153.9 102.6	3/8"	1/2"		
	1/4"					
	3/8"		136.8			
	1/2"		102.6	77.0		
	3/4"		68.4	51.3 38.5 30.8 25.7		
	1"					
	1.25"					
	1.5"					
	bond breaker tape to prevent three-sided adhesion. Closed cell backer rod should be 25% larger than joint width; do not compress more than 40%. Never use open cell rod in on grade horizontal joints.					
Sag Flow	self-leveling@1	self-leveling @ 120 °F (49 °C)		(ASTM C-639)		
Cure Time	90 % in 1 h		(at 77 °F (25 °C) a	nd 50 % R.H.) (MNA Method)		
Skin Time	10 min.		(at 77 °F (25 °	C), 50 % R.H.) (MNA Method)		
Tack Free Time	25 min.		(at 77 °F (25	°C), 50 % R.H.) (ASTM C-679)		

1 gallon. Vield in Linear feet

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- Do not allow sealant to come in contact with solvent during cure.
- Do not allow sealant to come in contact with curing polyurethane sealants during cure.
- Not intended for immersion.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean.
 Contact Technical Service for more information.
- Contact Technical Service prior to using in joints over 3 in. (76 mm) wide.
- Not intended for structural glazing.
- Test recommended for absorptive surfaces such as limestone, granite or marble where staining may occur.
- Do not apply to substrates that bleed oil, plasticizers or solvent.
- Do not apply to damp or wet substrates.
- Lower temperature and humidity will extend tack free and cure rates.
- Allow treated wood to age six months before application.
- Brass and copper may discolor. Test apply prior to application.
- Test sensitive substrates, such as mirror backings for compatibility before use.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion. **Porous Substrates** – clean by mechanical methods to expose a sound surface free of contamination and laitance.

Non-porous substrates – for cleaning non-porous substrates, use two rag wipe method using xylene or an approved commercial solvent. Allow solvent to evaporate prior to sealant application. Priming

Sikasil-728 RCS is designed to obtain adhesion without the use of a primer; however, best results are obtained when horizontal joints are primed. Test by applying the sealant and/or primer sealant combination to confirm results and proposed application methods. Refer to Technical Data Sheet for Sikasil Primer and contact Technical Service for additional information.

 Product Data Sheet

 Sikasil®-728 RCS

 February 2021, Version 01.02

 02051506000000001



BUILDING TRUST

APPLICATION METHOD / TOOLS

Joint Design: The number of joints and the joint width may be designed for high movement capability. For joints one to three inches in width, the sealant will accept movements +100 % and -50 % and for three to four inches in width, the sealant will accept movements of \pm 50 % of joint width at time of installation. The depth of the sealant should be 1/2 the width of the joint. The minimum depth is 1/4 inch (6 mm) and the maximum is 1/2 inch (12 mm). For joints greater than 1 inch (25.4 mm), do not exceed 1/2 inch (6 mm) in depth

Joint Backing: To control joint depth, use closed cell polyethylene or non-gassing polyolefin backer rod. If joint depth does not allow for backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion. Closed cell backer rod should be 25 % larger than joint width; do not compress more than 40%. Never use open cell rod in on grade horizontal joints.

Apply sealant using consistent, positive pressure to force sealant into the joint. Apply the sealant so that it is recessed 1/8 in. (3 mm) below the surface. For parking deck joints, recess 1/4 in. (6 mm). For highway joints, recess 1/2 in. (12.7 mm). Sikasil®-728 RCS is self-leveling - no tooling is needed. DO NOT use soapy water or other liquids. Consult full application guide for further information. Sikasil®-728 RCS will obtain adhesion to aged, cured asphalt. Never use on newly poured asphalt. Conduct a field test to document and confirm adhesion under actual jobsite conditions. For sausages use a 16 element, 3/4 (19 mm) diameter static mixing nozzle.

Removal

Remove excess sealant from substrate while uncured using a commercial solvent, such as xylene according to the solvent manufacturer's warnings and instructions for use. Cured sealant can only be removed by mechanical means.

Sika Mexicana S.A. de C.V.

Frace, Industrial Balvanera

Corregidora, Queretaro

Phone: 52 442 2385800 Fax: 52 442 2250537

C.P. 76920

Carretera Libre Celaya Km. 8.5

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY

Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071 Phone: +1-800-933-7452 Fax: +1-201-933-6225 usa.sika.com



Product Data Sheet Sikasil®-728 RCS February 2021, Version 01.02 02051506000000001

• FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT **OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD** BY OTHERS.

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling 1-800-933-7452.

Sikasil-728RCS-en-US-(02-2021)-1-2.pdf



BUILDING TRUST