**Product Data Sheet** Edition 9.9.2014 Identification no. Sika<sup>®</sup> Duoflex<sup>®</sup> NS

## Sika<sup>®</sup> Duoflex<sup>®</sup> NS

Two-Component, Non Sag, Polysulfide Sealant

Description	Sika <sup>®</sup> Duofl designed fo	ex <sup>®</sup> NS is a r vertical an	two-compo d overhead	onent, non-s surfaces.	ag, premiu	m-quality pol	ysulfide seal	ant, specifica	
Where to Use	<ul> <li>Sika<sup>®</sup> Duoflex is suitable for either exterior or interior use to seal both static and dynamic joints:</li> <li>Joints in precast concrete.</li> <li>Joints in glass and metal curtain wall construction.</li> <li>Expansion and control joints in concrete and masonry walls.</li> <li>Joints in metal siding.</li> <li>Perimeters of aluminum window frames and metal panels.</li> <li>Joints located in gas stations /refueling environments.</li> </ul>								
Advantages	<ul> <li>Tough, elastic, rubber-like seal.</li> <li>Remains flexible with expansion and contraction of building component without adhesive or cohesive failure, based on good joint design.</li> <li>Stays resilient within a wide temperature range.</li> <li>Excellent resistance to water, oils, grease, most solvents, mild acids and alkalis.</li> <li>Tenacious adhesion to concrete, metal, wood, glass, stone, ceramic and masonry surfaces in ar combination, typically without the need for priming with Sika Duoflex 5050 Primer.</li> <li>Effective under constant immersion or saturated conditions, when suitably primed.</li> <li>USDA acceptance (NS grade only).</li> </ul>								
Coverage	Coverage based on linear feet of sealant per gallon:								
	Width			1	Depth				
	in (mm)	0.25 (6)	0.5 (13)	0.75 (19)	1 (25)	1.25 (32)	1.5 (38)	-	
	0.25 (6)	81.4						_	
	0.5 (13)	40.7	20.3					-	
	0.75 (19)	27.2	13.5	9.2				-	
	1 (25)	20.3	10.2	6.9	5.2			-	
	1.25 (32)	16.4	8.2	5.6	3.9	3.3		-	
	1.5 (38)	13.5	6.9	4.6	3.3	2.6	2.3		
Packaging	1.5 gallon (	5.7 liter) uni	t						
Chemical Resistance	(see Sika Du	uoflex chem	ical resistanc	e chart)					
	Typical Data (Material and curing condi- RESULTS MAY DIFFER BASED UPON STATISTICAL VAR APPLICATION METHODS, TEST METHODS, ACTUAL SI Self Life         Storage Conditions         Product Conditioning         Color         UV Color Stability         Properties at 73°F (23°C) and 50% R.H. Pot Life         Tack Free         Full Cure         Testing Standards         Application Temperature			ARIATIONS DEPEN I year Store of Condition Condition When we Bronze Very go .H. 1 hr 6 hrs 7 days ASTM 1 40 to 1 Sealan anticip	ATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, TE CONDITIONS AND CURING CONDITIONS. 1 year in original, unopened packaging. Store dry between 40 and 95°F (4 and 35°C). Condition material to 40 to 100°F before application. Pre- conditioning units to approximately 70°F (21°C) is necessary when working at the far ends of the application range. Bronze Very good 1 hr 6 hrs 7 days ASTM C920, Class 25 40 to 100°F (4 to 38°C), ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement. -40 to 170°F (-40 to 77°C)				
	Elongation	n at Break AS ardness ASTN	TM D412 // D2240	500% - 25 - 30	I				

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	Abrasion and Puncture Resistance Tensile Strength ASTM D412	Excellent 150 - 200 psi (1.03 - 1.38 MPa)				
How to Use Surface Preparation	All joint surfaces must be clean, sound, dry and frost-free. Joint walls must be free of oils, grease, paints, coatings, sealers, curing compound residues, and any other foreign matter that might prevent adhesion. Ideally this should be accomplished by mechanical means (e.g. sandblasting, abrasive grinding, etd.). Bond breaker tape or backer rod must be used in bottom of joint to prevent bond. <b>Joint Design :</b> Proper joint design for moving joints is 2:1 width to depth ratio, with a recommended 1/4" (6 mm) minimum and 1/2" (13 mm) maximum depth of sealant. For non-moving joints, the width to depth ratio can vary. <b>Priming:</b> For maximum adhesion, including in submerged or immersed applications, the use of Sika® Duoflex Primer is necessary. Consult your Sika Technical Service Representative if unsure if primer is necessary. A uniform glossy sheen after priming indicates adequate primer. Some surfaces, such as porous concrete, may require two coats. Primer must be tack-free before applying sealant. Sealant must be applied same day as primer. Primed areas left overnight should be re-primed.					
Mixing	300 rpm) and Sika mixing paddle. N down sides of pail periodically. Av within the pot life parameters give	t B into pail of Component A and mix using a low speed drill (100- Aix for 3-5 minutes to achieve uniform color and consistency. Scrape oid entrapment of air during mixing. Mixed material must be used n. Do not attempt to thin or use material that has started to harden. mulated, manufactured and shipped to be used together.				
	adding Component B in Componen After scraping down the sides of the bottom of the pail between the fir	degF), do not force the mixing paddle to the bottom of the pail. After nt A, mix the top 1/2 to 3/4 of the pail in the first minute of mixing. he pail, mix again for another minute. The paddle should reach the st and second minute of mixing. Scrap down the sides of the pail a dditional 2-3 minutes until sealant is well blended.				
Application	70°F (21°C) is necessary when wor units to work areas just prior to a substrates. Sika® Duoflex NS should expansion and contraction. To plac Place nozzle of gun into bottom o	atures 40 to 100°F (4 to 38°C). Pre-conditioning units to approximately king at the far ends of the application range. Move pre-conditioned application. Apply sealant only to clean, sound, dry, and frost-free d be applied into joints when joint slot is at mid-point of its designed e, load directly into bulk gun or use a follower plate loading system. f joint and fill entire joint. Keeping the nozzle deep in the sealant, ant preceding nozzle to avoid air entrapment. Also, avoid overlapping ir. Dry tool as required.				
Limitations	<ul> <li>The ultimate performance of S</li> <li>Primary and secondary immer</li> <li>Do not apply when moisture v sealant.</li> </ul>	minated surfaces. ainted surfaces.				

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

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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