Product Data Sheet Edition 1.24.2011 Identification no. 481 Sikaflex-11 FC

Sikaflex[®]-11 FC One part advanced polyurethane, elastomeric sealant/adhesive

Description	aflex-11 FC is a one-component, gun-grade, adhesive and sealing compound of permanent sticity. This dual-purpose material is based on a special moisture-cured polyurethane with an elerated curing time.					
Where to Use	As an elastic adhesive for: Cover plates, gaskets and coverings. Acoustic ceiling tiles. Floor moldings and door sills. Light weight construction materials. Wood or metal and door frames. Roof tiles. As an elastic joint sealer for: Air ducts and high vacuum systems. Containers, tanks, and silos. Gaskets in openings in walls or floors for ducts, piling, etc. Reservoirs or water retaining structures. Aluminum fabrication. Bolted lap joints.					
Advantages	 Excellent adhesion on all cement-based materials, brick, ceramics, glass, metals, wood, epoxy, polyester and acrylic resin. Fast cure rate. Good weathering and water resistance. Non-corrosive. Can be painted over with water, oil, and rubber-based paints. (Preliminary tests recommended). High durability. 					
Coverage	10.1 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint.					
Packaging	Disposable 10.1 fl. oz., moisture-proof composite cartridges, 12/case.					
	Typical Data (Material and curing conditions @ 73°F and 50% R.H.)Shelf Life12 months in unopened container.Storage ConditionsStore at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.ColorWhiteApplication Temperature40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement.Service Range-40° to 170°FCuring RateTack-free Time (TT-S-00230C) 1 to 2 hours depending on climate. Final Cure 3 to 5 daysRecoveryASTM C-719 >90%Shore A Hardness (ASTM D-2240) Tensile Stress40°45Tensile Stress225 psi Elongation at BreakG00%Lap-Shear Strength (ASTM D-1002) To % RHWeathering ResistanceExcellent					
	Chemical Resistance Good resistance to water, weak acids, weak alkalis, sewerage, mineral oils,					
	vegetable oils, fats, fuels,. (Not resistant to organic solvents, paint thinner, strong acids, strong alkalis). Consult Technical Service for specific data.					
	How to Use Surface Preparation Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. A roughened surface will also enhance bond.					



Priming	Priming is not usually necessary for anodized aluminum, steel, non-absorbent materials such as glass, ceramics, stoneware and tiles. Most		Linear Feet of Sealant per Gallon Depth			
	substrates only require priming if testing indicates		Inches	1⁄4	1/2	
	a need or where sealant will be subjected to water		1/4	308.0		
	immersion after cure. Consult Technical Service for additional information on priming.	_ [1/2	154.0	77.0	
Application	Recommended application temperatures: 40°-100-	Width	3⁄4	102.7	51.3	
Application	°F. For cold weather application, condition material	≤	1	77.0	38.5	
	to 65°-75°F before using.		1 ½	61.6	30.8	
	Place nozzle of gun into bottom of the joint and fill		1 ¾	51.3	25.7	
	entire joint. Keep the nozzle in the sealant; continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to el Joint dimension should allow for 1/4 inch minimum and Proper design is 2:1 width to depth ratio.	limina				
Storage Limitations	 Store in dry warehouse conditions between 40°F and 80°I Allow 5 day cure at standard conditions when using 					
	 Avoid exposure to high levels of chlorine. (Maximum Maximum depth of sealant must not exceed 1/2 in.; Maximum expansion and contraction should not exc Avoid contact with alcohol and other solvent cleaner Do not apply when moisture-vapor-transmission cor cause bubbling within the sealant. Use opened cartridges the same day. When applying sealant, avoid air-entrapment. Since system is moisture-cured, permit sufficient ex White color tends to yellow slightly when exposed to The ultimate performance of Sikaflex-11 FC depend proper preparation of joint surfaces. Not for use in expansion joints. Heavier substrates may require additional support d 	mini ceed rs du nditio cposu o ultra ds on	mum depth i 12.5% of av ring cure. n exists from re to air. aviolet rays. proper appl	erage joint wid n the substrate ication, good d	as this ca	
Caution	 Do not use in contact with bituminous/asphaltic mate Combustible: Keep away from open flames and high h pors. Use with adequate ventilation. Irritant; Sensitizer - Contains polyisocyanate prepolyr with adequate ventilation. May cause skin/eye/respirate tory sensitization after prolonged or repeated contact. A cause headaches, dizziness or other CNS effects. Use 	heat. mer, z ory ir Avoic	Contains xy kylene. Avoid ritation. Maj contact. Ov	d breathing vap y cause skin ar /erexposure to	oors. Use nd/or respir xylene ma	
First Aid	goggles and chemical resistant gloves is recommended properly fitted NIOSH approved respirator. Remove con In case of skin contact, wash immediately and thoroughly v	ntam	inated clothi	ng.		
	physician. For eye contact, flush immediately with plenty of For respiratory problems, remove person to fresh air; if syn ingestion, dilute with water and consult physician. Remove	lenty of water for at least 15 minutes; contact physicia r; if symptoms persist, contact a physician. In case of				
Clean Up	In case of spills of leaks, wear suitable protective equip material, and transfer to suitable container. Ventilate a with current, applicable local, state, and federal regulat In case of emergency, call CHEMTREC 1-800-424-930	area. tions	Avoid contac			
	KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FC All information provided by Sika Corporation ("Sika") concerning Sika products, including application and use of Sika products, is given in good faith based on Sika's current experie and applied under normal conditions in accordance with Sika's instructions. In practice, th tions, actual site conditions and other factors outside of Sika's control are such that Sika recommendations or instructions related to its products, nor shall any legal relationship be recommendations or instructions related to its products. The user of the Sika product(s) and purpose before proceeding with the full application of the product(s). Sika reserves All sales of Sika product(s) are subject to its current terms and conditions of sale which Prior to each use of any Sika product , the user must always read and follow the warm	but not ience al he differ a assum e create) must t s the rig h are a nings a	I limited to, any re and knowledge of it rences in material hes no liability for ad by or arise from est the product(s) ght to change the vailable at www.s nd instructions of	commendations and a ts products when prop s, substrates, storage the provision of such the provision of such of for suitability for the properties of its prop sikausa.com or by ca	advice relating to berly stored, har and handling contraction, account information, account intended applic ducts without me alling 800-933-7 at current Tech	