



PSX[™]•20 Adhesive Kit

Bondstrand® Product Data

Epoxy siloxane adhesive for bonding fiberglass pipe and fittings with tapered joints

Description	PSX-20 adhesive is a patented two-part epoxy siloxane adhesive designed for permanently joining fiberglass pipe and fittings with taper/taper joints. PSX-20 is a non-flowing thixotropic paste offered in easy-to-use kits. The PSX-20 epoxy adhesive kit contains an adhesive resin, hardener, mixing spatula, brush and assembly instructions. The adhesive resin is a dark red paste with sand, The adhesive hardener is a white paste. The mixed adhesive color is red. PSX-20 can be used to connect epoxy, vinyl ester or phenolic systems. Ameron PSX-20 adhesive is Listed by Underwriters Laboratories (UL) under File MH 9162 for use in Nonmetallic Underground Piping for Flammable Liquids. PSX-20 adhesive is particularly suited for piping systems conveying petroleum products including diesel fuels, kerosene, etc., alcohols and alcohol-gasoline mixtures, o oxygenated fuels. It is also approved by Underwriters Laboratories for use with MTBE fluids.									
Listings and approvals										
Preparation of bonding surface	Using the sandpaper supplied in the adhesive kit, clean both surfaces thoroughly to remove all dirt, grease and foreign materials. Make sure the bonding surfaces are free of moisture. Do not touch the bonding surfaces with bare hands, dirty or greasy gloves or rags after cleaning them.									
Mixing the adhesive	In cold weather it is necessary to warm the resin to 50°F (10°C) to permit good mixing and easier application.									
	Open both resin and hardener containers. Using the stick supplied, put all of the hardener into the resin container. Never split a kit .									
Pot life and cure time	At 77°F (25°C) the pot life of PSX•20 adhesive is 20 to 30 minutes. The pot life decreases with rising temperatures:									
	Temperature		Adhesive Pot Life (min.)	Minimum Joint Cure Time						
	(°F)	(°C)	(minutes)	(hours)	-					
	50	10	70	12	-					
	65 75	18 24	40 25	6 4						
	95	35	10	3	_					
				e insulation to prevent						
	heat from the cure reaction. Cap the ends of the piping to prevent the passage of cold air. In severe cold conditions, warm air may be blown through the interior of the pipe.									



heat from the cure reaction. Cap the ends of the piping to prevent the passage of cold air. In severe cold conditions, warm air may be blown through the interior of the pipe. A heat cure is recommended for installations with service temperatures above 180°F (82°C) or operating pressures over 300 psi. For ambient temperature conditions below 50°F (10°C), an external heat cure must be used. A minimum heat cure time of at least 30 minutes is recommended for 2- through 6-inch pipe. Even after the adhesive has turned solid at ambient temperatures, heat curing will promote chemical cross-linking of the adhesive, thus increasing its strength, temperature resistance and corrosion resistance. A single Chem Cure Pak may be applied or an Ameron-approved electric heat blanket may be used. The heat cure may be applied at any time after the bond is made and before the pipe has been tested or put into service.

Adhesive kit sizes and bonds per kit	Adhesive kits are available in 3-, 5- and 8-oz. sizes. The table below indicates the number of bonds per kit for each pipe size. Values in the table are based on the quantity of adhesive required by an experienced crew working at a temperature of $75^{\circ}F$ (24°C) with a 30 minute adhesive pot life.											
	Kit size	Kit size Bonds per kit per pipe size										
	(oz.)	2										
	3	7	5	3 ¹ / ₂	1 ¹ / ₂	1	¹ /2	—	—	—		
	5	12	8 13	6 9	2 ¹ /2 4	1 ¹ /2 2 ¹ /2	1 1 ¹ /2	1 1	¹ /2 1	¹ /2 ¹ /2		
Shear strength comparison	Polysiloxane-epoxy adhesive demonstrates a significant improvement in bonding capabilities over conventional epoxy adhesives. When cured at room temperature, PSX-20 achieves 15 to 20% greater shear strength than conventional epoxy adhesives. With elevated temperature cures, lap shear strength increases to 20 to 35% over standard epoxy adhesives. PSX-20 also offers significant improvements over conventional epoxy adhesives when bonding phenolic based laminates. When applied according to manufacturer's instructions, PSX-20 yields a secure bond for Dualoy [®] , Bondstrand [®] and Bondstrand PSX products.											
Storage	Do not store kits in areas above 100° (38°C) or below 32°F (0°C), or in the direct sunlight in warm weather. In cold weather warm the resin to at least 60°F (16°C) but not above 100°F (38°C) to permit good mixing and easier application. Do not use adhesive past its expiration date.											
Toxicity	<i>Hardener:</i> The hardener is irritating to the skin, eyes and respiratory tract. It is toxic orally and may cause sensitization. <i>Resin:</i> The resin is irritating to skin and eyes and may cause sensitization.											
Handling precautions	 Hardener: Do not get in eyes, on skin or clothing. Avoid breathing vapor; use caution when opening can. Wear rubber gloves and apron and NIOSH-approved respirator. Wash thoroughly after handling. Resin: Avoid contact with eyes, skin or clothing. Wear rubber gloves and eye protection. Wash thoroughly after handling. 											
First aid	-			igniy ai		unny.						
	In case o Eyes:	In case of contact Eyes: Immediately flush eyes with plenty of						FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE, EXPOSURE OR ACCIDEN				
	Lycs.	water for at least 15 minutes.					CALL CHEMT					
	Skin:	Call a physician. Wash skin with water and soap, if available. CALL CREWITK DAY OR NIGHT 1-800-424-930							HT 300			
	Clothing:	<i>lothing:</i> Remove contaminated clothing and wash before reuse						District of	Columbia			
	Inhalatior	Inhalation: Remove to fresh air. Give oxygen or artificial respiration if necessary.						For calls originating outside the continental U.S. 202-483-7616 Washington D.C. collect				
	Ingestion	Ingestion: If patient is conscious, give 1 to 2 glasses of water to dilute. <i>Do not</i> <i>induce vomiting.</i> Call a physician immediately.									CORDED	
Important Notice	reliable. Hov	e and the vever, suc or extrapo	informat h factors	ion and re as variat data ma	ecommer tions in er y cause d	ndations it nvironmer lifferent re	t contain nt, applic esults. Ar	s are base ation or ir neron ma	nstallatior kes no re	n, changes i epresentatio	n or warranty	



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