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SPEARS® MANUFACTURING COMPANY CONSIDERS YOUR SAFETY, THE QUALITY OF ITS PRODUCTS AND THE CLARITY OF ITS ASSEMBLY INSTRUCTIONS TO BE CRITICALLY IMPORTANT. CONSEQUENTLY, SPEARS® OFFERS DATA SHEETS, VIDEOS AND TRAINING FOR THOSE WHO WISH TO EXPAND THEIR KNOWLEDGE AND SKILLS WITH SOLVENT CEMENT JOINING METHODS. SET AND CURE TIME SCHEDULES.

Average Initial Set Schedule For PVC/CPVC Solvent Cements**

Temperature Range	Pipe Sizes 1/2" to 1-1/4"	Pipe Sizes 1-1/2" to 2"	Pipe Sizes 2-1/2" to 8"	Pipe Sizes 10" to 15"	Pipe Sizes 15"+
60°- 100°F	2 Minutes	5 Minutes	30 Minutes	2 Hours	4 Hours
40°- 60°F	5 Minutes	10 Minutes	2 Hours	8 Hours	16 Hours
0°-40°F	10 Minutes	15 Minutes	12 Hours	24 Hours	48 Hours

NOTE: Initial set schedule is the necessary time to allow before the joint can be carefully handled. In damp or humid weather allow 50% more set time.

(** These figures are estimates based on our laboratory tests using water; extended set times are required for chemical applications. Due to the many variables in the field, these figures should be used as a general quide only.

Average Joint Cure Schedule for PVC/CPVC Solvent Cements**

Relative Humidity 60% or Less	Cure Time Pipe Sizes 1/2" to 1-1/4"		Cure Time Pipe Sizes 1-1/2" to 2"		Cure Time Pipe Sizes 2-1/2" to 8"		Cure Time Pipe Sizes 10" to 15"		
Temperature range during assembly and cure periods	up to 160 psi	above 160 to 370 psi	up to 160 psi	above 160 to 315 psi	up to 160 psi	above 160 to 315 psi	up to 100 psi	up to 100 psi	
60°- 100°F	15 min	6 hrs	30 min	12 hrs	1-1/2 hrs	24 hrs	48 hrs	72 hrs	
40°- 60°F	20 min	12 hrs	45 min	24 hrs	4 hrs	48 hrs	96 hrs	6 days	
0°-40°F	30 min	48 hrs	1 hour	96 hrs	72 hrs	8 days	8 days	14 days	

NOTE: Joint cure schedule is the necessary time to allow before pressurizing system. In damp or humid weather allow 50% more cure time.

(††These figures are estimates based on our laboratory tests. Due to the many variables in the field, these figures should be used as a general guide only.)

Average Number of Joints per Quart of Cement*

Pipe Diameter	1/2"	3/4"	1"	1-1/2"	2"	3"	4"	6"	8"	10"	12"	15"	18"	20"	24"
Number of Joints	300	200	125	90	60	40	30	10	5	2-3	1-2	3/4	1/2	7/16	5/16

("These figures are estimates based on our laboratory tests. Due to the many variables in the field, these figures should be used as a general guide only.)

SUITABLE FOR LOW PRESSURE AIR HANDLING 5 PSI, NOT FOR DISTRIBUTION OF COMPRESSED AIR OR GAS.

All air must be bled from the system during the initial fluid fill. Pressure testing of the system must not be made until all solvent cement joints have properly cured. Initial pressure testing must be made at approximately 10% of the system hydrostatic pressure rating to identify potential problems prior to testing at higher pressures.



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