

## Set Up/Curing Times

The set up/cure time is dependent on several factors. The pipe size, socket fit, ambient temperature, relative humidity, solvent cement used and the system operating pressure should all be considered when determining set up/cure times.

### Average Handling/Set Up Times for PVC/CPVC Solvent Cements

Handling/Set Up Time is the time required prior to handling the joint. In damp or humid weather, allow 50% additional time.

Temperature during assembly	60° to 100°F	40° to 60°F	20° to 40°F	0° to 20°F
Pipe Diameter 1/2" to 1-1/4"	2 minutes	5 minutes	8 minutes	10 minutes
Pipe Diameter 1-1/2" to 3"	5 minutes	10 minutes	12 minutes	15 minutes
Pipe Diameter 4" to 5"	15 minutes	30 minutes	60 minutes	2 hours
Pipe Diameter 6" to 8"	30 minutes	90 minutes	3 hours	6 hours

These figures should only be used as a general guide. Conditions in the field may vary.

Contact Oatey Technical Services for set up times for pipe larger than 8" diameter.

### Average Number of Joints Per Quart of Solvent Cement

Pipe Diameter	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	3"	4"	6"	8"
Number Of Joints	325	250	150	125	90	70	50	30	10	8

These figures are estimates based on laboratory testing. Conditions in the field may vary.

### Average Joint Cure Times for PVC/CPVC Solvent Cements

Joint cure time is the time required before pressure testing the system. In damp or humid weather allow 50% additional cure time.

#### PVC & ABS

Pipe Diameter		Temperature during assembly and cure period				
		60° to 100°F 16° to 38°C	40° to 60°F 4° to 16°C	20° to 40°F -7° to 4°C	0° to 20°F -18° to -7°C	
1/2" to 1-1/4" 13 to 32mm	Up to 180 psi	15 min	20 min	30 min	Please contact Oatey Technical Services for cure time information	
	180 psi +	4 hours	8 hours	36 hours		
1-1/2" to 3" 40 to 80mm	Up to 180 psi	30 min	45 min	60 min		
	180 psi +	8 hours	16 hours	3 days		
4" to 5" 100 to 125mm	Up to 180 psi	2 hours	4 hours	36 hours		
	180 psi +	12 hours	24 hours	4 days		
6" to 8" 150 to 200mm	Up to 180 psi	8 hours	16 hours	3 days		
	180 psi +	24 hours	48 hours	9 days		

#### CPVC

Pipe Diameter		Temperature during assembly and cure period				
		60° to 100°F 16° to 38°C	40° to 60°F 4° to 16°C	20° to 40°F -7° to 4°C	0° to 20°F -18° to -7°C	
1/2" to 1-1/4" 13 to 32mm	Up to 180 psi	1 hour	2 hours	Please contact Oatey Technical Services for cure time information		
	180 psi +	6 hours	3 days			
1-1/2" to 3" 40 to 80mm	Up to 180 psi	5 hours	3 days			
	180 psi +	3 days	1 week			
4" to 5" 100 to 125mm	Up to 180 psi	16 hours	1 week			
	180 psi +	1 week	3 weeks			
6" to 8" 150 to 200mm	Up to 180 psi	1 week	2 weeks			
	180 psi +	2 weeks	4 weeks			

Contact Oatey Technical Services for cure times for pipe larger than 8" diameter.

This data is applicable only for new piping installations and not recommended for repair or cut-ins on hot and cold mwater distribution systems. Please contact Oatey Technical Service for recommendations on Cure Times for such applications.

DO NOT test PVC and CPVC piping systems with compressed air or gas.

**Notes:** Cure schedule is the time required before pressure testing the system

- This chart can be used as a guideline to determine joint cure
- Cure times stated are for conditions with relative humidity of 60% or less
- + In damp or humid weather allow 50% additional cure time



4700 W. 160th St. | Cleveland, OH 44135  
800.321.9532 | Fax: 800.321.9535  
[www.oatey.com](http://www.oatey.com)

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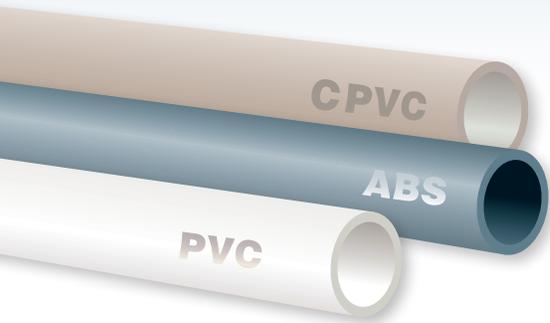
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# Solvent Cements



## How to Solvent Weld



## Pipe Types

**CPVC: Chlorinated Poly Vinyl Chloride** – Typically used for pressure piping applications, including hot and cold potable water distribution. Can also be used for corrosive fluid handling in industrial or chemical applications.

**ABS: Acrylonitrile Butadiene Styrene** – Typically used for non-pressure piping applications.

**PVC: Poly Vinyl Chloride** – Typically used for pressure or non-pressure piping applications.

## Solvent Cements for any Application

If you need to solvent weld one pipe joint or one thousand, Oatey is the solvent cement more professionals choose than any other brand. From hot to cold, wet to dry, Oatey has the solvent cement to meet your exact requirement for any plastic pipe installation.

## Product Development

Oatey Solvent Cements are developed with the plumbing contractor in mind. Extensive research and product development provide you peace of mind and confidence when using Oatey brand solvent cements. In addition, no company works as hard as Oatey on behalf of the professional plumber with regulatory and coding agencies.

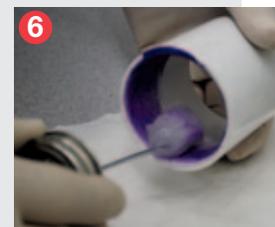
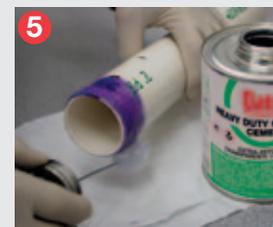
## How To Solvent Weld

### Prior To Use:

#### Read all product labels carefully.

Stir or shake cement before using. If jelly-like, do not use. Keep container closed when not in use. Avoid eye and skin contact. Wear safety glasses with side shields and wear rubber gloves.

1. Square pipe ends, chamfer and remove all dirt.
2. Check dry fit of pipe and fitting. Pipe should easily go 1/3 of the way into the fitting. If pipe bottoms, it should be snug.
3. Use a suitable applicator at least 1/2 the size of the pipe diameter. For larger size pipe systems use a natural bristle brush or roller.
4. Clean pipe and fitting with a listed primer. *(Do not use primer on ABS pipe and fittings. Use Clear Cleaner only!)*
5. Apply liberal coat of cement to pipe to the depth of the socket, leave no uncoated surface.
6. Apply a thin coat of cement to inside of fitting, avoid puddling of cement. Puddling can cause weakening and premature failure of pipe or fitting. Apply a second coat of cement to the pipe.
7. Assemble parts QUICKLY. Cement must be fluid. If cement surface has dried, recoat both parts.
8. Push pipe FULLY into fitting using a 1/4 turning motion until pipe bottoms.
9. Hold pipe and fitting together for 30 seconds to prevent pipe push-out – longer at low temperatures. Wipe off excess.
10. Allow 15 minutes for good handling strength and 2 hours cure time at temperatures above 60°F before pressure testing up to 180 psi. Longer cure times may be required at temperatures below 60°F or with pipe above 3". DO NOT TEST WITH AIR.



For specialty cements and chemical applications please see specific product label instructions.