

# Recommended Practices and Precautions

## Dos and Don'ts



SCIENCE. SERVICE. SAFETY.

## Dos

- Always verify thread sealants, gasket lubricants, or fire stop materials compatibility at [fbcsystemcompatible.com](http://fbcsystemcompatible.com).
- Do verify support hangers can be used with BlazeMaster® CPVC.
- Do use the correct tools to cut BlazeMaster fire sprinkler systems, such as wheel cutters, approved ratchet cutters, fine toothed saw, or proper power saw.
- Do only use listed solvent cement and always follow application instructions.
- Do keep pipe and fittings in original packaging until needed.
- Do store pipe and fittings with an opaque tarp, if stored outdoors, to avoid direct sunlight.
- Do cut the pipe ends square to ensure a proper solvent cement joint.
- Do deburr the inside of the cut pipe and bevel the outside of the pipe end before solvent cementing.
- Do apply solvent cement to the outside of the pipe first, then fitting, to prevent puddles from developing on the inside of the fitting.
- Do always solvent cement sprinkler head adapters prior to installing sprinkler heads to avoid cement obstructing the waterway.
- Do rotate the pipe 1/4 turn when fitting bottoming pipe in socket when installing the pipe into the fitting during solvent cementing.
- Do support sprinkler head properly to prevent lifting of the head through the ceiling when activated.
- Do keep threaded rod within 1/16" of the pipe.
- Do account for movement due to expansion and contraction when designing a fire system.
- Do follow the manufacturer's recommended cure times prior to pressure testing.
- Do perform hydrostatic testing in accordance with the manufacturer's instructions.
- Do fill lines slowly and bleed the air from the system prior to pressure testing.
- Do follow the latest NFPA standards for proper use of antifreeze solutions.
- Do cut out the cracked or damaged pipe at least 6 inches before using remaining pipe.
- Do install BlazeMaster CPVC pipe and fittings in wet systems only or specially listed dry systems.
- Do ensure all installers are certified with current BlazeMaster training; training is required every two years.
- Do use flexible metal couplers with BlazeMaster CPVC grooved adapters.
- Do always post job site notifications in high frequented areas and inform other trades and job overseers for compatibility.



Renew your BlazeMaster®  
CPVC pipe and fittings  
installation training every  
two years.

TABLE I Cure Schedules 225 psi (1552 kPa)	225 psi (1552 kPa) Test Pressure (maximum) Ambient Temperature During Cure Period (Use this table for all cut-ins)		
Pipe Size	60°F to 120°F (16°C to 49°C)	40°F to 59°F (4°C to 15°C)	0°F to 39°F (-18°C to 4°C)
3/4" (20 mm)	1 hr.	4 hrs.	48 hrs.
1" (25 mm)	1 1/2 hrs.	4 hrs.	48 hrs.
1 1/4" & 1 1/2" (32 & 40 mm)	3 hrs.	32 hrs.	10 days
2" (50 mm)	8 hrs.	48 hrs.	Note 1
2 1/2" & 3" (65 & 80 mm)	24 hrs.	96 hrs.	Note 1

TABLE II Cure Schedules 200 psi (1379 kPa)	200 psi (1379 kPa) Test Pressure (maximum) Ambient Temperature During Cure Period (Use this table for all cut-ins)		
Pipe Size	60°F to 120°F (16°C to 49°C)	40°F to 59°F (4°C to 15°C)	0°F to 39°F (-18°C to 4°C)
3/4" (20 mm)	45 mins.	1 1/2 hrs.	24 hrs.
1" (25 mm)	45 mins.	1 1/2 hrs.	24 hrs.
1 1/4" & 1 1/2" (32 & 40 mm)	1 1/2 hrs.	16 hrs.	120 hrs.
2" (50 mm)	6 hrs.	36 hrs.	Note 1
2 1/2" & 3" (65 & 80 mm)	8 hrs.	72 hrs.	Note 1

TABLE III Cure Schedules 100 psi (690 kPa)	100 psi (690 kPa) Test Pressure (maximum) Ambient Temperature During Cure Period (Use this table for all cut-ins)		
Pipe Size	60°F to 120°F (16°C to 49°C)	40°F to 59°F (4°C to 15°C)	0°F to 39°F (-18°C to 4°C)
3/4" (20 mm)	15 mins.	15 mins.	30 mins.
1" (25 mm)	15 mins.	30 mins.	30 mins.
1 1/4" (32 mm)	15 mins.	30 mins.	2 hrs.



# Don'ts

- Do not use petroleum or solvent-based paints, sealants, lubricants or fire stop materials.
- Do not use any glycol-based antifreeze solutions.
- Do not use Teflon tape and thread sealants simultaneously.
- Do not use tape or dope when installing specialty sprinkler head adapters like Rapid Seal® and InstaSeal®
- Do not use solvent cement that is expired, exceeds shelf life, or has become discolored or gelled.
- Do not connect rigid metal couplers to BlazeMaster CPVC grooved adapters.
- Do not use edible oils as a gasket lubricant.
- Do not thread BlazeMaster CPVC pipe.
- Do not allow solvent cement to plug the sprinkler head orifice.
- Do not use solvent cement near sources of heat, open flame, or when smoking.
- Do not pressure test until recommended cure times are met.
- Do not use dull or broken cutting tool blades when cutting pipe.
- Do not use ratchet cutters below 50°F/10°C.
- Do not reference the FBC™ System Compatible Program for brands other than BlazeMaster®, Corzan®, and FlowGuard® CPVC.
- Do not install directly over air plenums; BlazeMaster CPVC must be installed adjacent to a return air grill.
- Do not install tape, insulated wire, or cable in direct contact with BlazeMaster CPVC pipe.

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BlazeMaster® CPVC Fire Protection Systems  
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