

Recommended Practices and Precautions—Dos and Don'ts

Dos

- Always verify thread sealants, gasket lubricants, or fire stop materials compatibility at fbcssystemcompatible.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 one-quarter 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" 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 Fire Protection Systems training; training is required every two years.
- Do use flexible metal couplers with BlazeMaster CPVC grooved adapters.
- Do always post jobsite notifications in high frequented areas and inform other trades and job overseers for compatibility.

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® CPVC, Corzan® CPVC, and FlowGuard® Gold 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.

Solvent Cement Cure Times

Table 1
225 PSI (1552 KPA) Test Pressure (Maximum)

Ambient Temperature During Cure Period

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" and 1 1/2" (32 and 40 mm)	3 hrs.	32 hrs.	10 days
2" (50 mm)	8 hrs.	48 hrs.	Note 1
2 1/2" and 3" (65 and 80 mm)	24 hrs.	96 hrs.	Note 1

Table 2
200 PSI (1379 KPA) Test Pressure (Maximum)

Ambient Temperature During Cure Period

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" and 1 1/2" (32 and 40 mm)	1 1/2 hrs.	16 hrs.	120 hrs.
2" (50 mm)	6 hrs.	36 hrs.	Note 1
2 1/2" and 3" (65 and 80 mm)	8 hrs.	72 hrs.	Note 1

Table 3
100 PSI (690 KPA) Test Pressure (Maximum)

Ambient Temperature During Cure Period

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.

Note 1: For these sizes, the solvent cement can be applied at temperatures below 40°F (4.5°C), however, the sprinkler system temperature must be raised to a temperature of 40°F (4.5°C) or above and allowed to cure per the above recommendations prior to pressure testing.



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