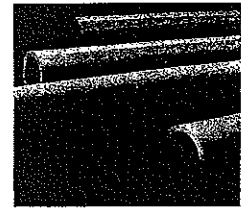


Updated: July 9, 2007  
 (Supersedes January 1, 2007)



## CHEMICAL COMPATIBILITY **FLOWGUARD GOLD** FlowGuard Gold® Pipe & Fittings PIPE & FITTINGS

CPVC domestic water, fire sprinkler, and industrial piping systems have been used successfully for more than 40 years in new construction, re-pipe and repair. CPVC products are ideally suited for these applications due to their outstanding corrosion resistance. Occasionally, however, CPVC and PVC can be damaged by contact with chemicals found in some construction products (and site preparations). Reasonable care needs to be taken to insure that products coming into contact with CPVC systems are chemically compatible. Lubrizol recommends that chemical compatibility with CPVC be confirmed with the manufacturer of the product in contact with CPVC piping systems. If chemical compatibility with CPVC is in question, Lubrizol recommends isolating the suspect product from contact with CPVC pipe or fittings.

The following products have been shown to be **UNACCEPTABLE** for (unprotected use) contact with CPVC systems. Chemically incompatible products are added to this list as they are brought to our attention. A product's absence from this list does not imply or insure CPVC chemical compatibility. **ALWAYS CHECK THE FLOWGUARD GOLD® CPVC WEBSITE AT [WWW.FLOWGUARDGOLD.COM](http://WWW.FLOWGUARDGOLD.COM) FOR THE MOST UP TO DATE CHEMICAL COMPATIBILITY LISTING. ALWAYS CHECK THE PRODUCT MANUFACTURER'S RECOMMENDATION IN THIS REGARD.**

### UNACCEPTABLE PRODUCTS - Do Not Use

CATEGORY	COMPANY	PRODUCT
Caulks	OSI Sealants (Dartworth Company) (Ohio Sealants)	Polyseamseal Tub & Tile Adhesive Caulk Polyseamseal All Purpose Adhesive Caulk Pro Series PC-158 Caulk
	John Wagner Associates	Grabber Acoustical Sealant GSCS
	United States Gypsum	Sheetrock Brand Acoustical Sealant
	White Lightning	3006 All Purpose Adhesive Caulk
Fire Stopping Systems	3M	Fire Barrier 2003 Silicone Fire Barrier CP25WB+
	Flame Stop	Flame Stop V
	Proset	Proseal Plug, Black Proseal Plug, Red
Leak Detector	Federal Process Co.	Gasoila Leak Tech*
	G.F. Thompson Co., Ltd	Masters Leak Detector
Miscellaneous	WD40	WD40 lubricant
	Victaulic	Silicone Pipe Lubricant
	Fiberlock Technologies	Shockwave
		Peppermint Oil
		Roofing Tar
		Vaseline
	Vegetable Oils	
Pipe Clamp	LSP Specialty Products	Acousto Clamp, Acousto-Plumb System
	Naylon Products	Naylon vinyl-coated wire pipe hangers
Pipe Tape	Christy's	Pipe Wrap Tape
	Pasco	All Weather PVC Pipe Wrap

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CATEGORY	COMPANY	PRODUCT
Pipe Tape	Wonder	No. 413 Pipe Wrap Tape
	Pro Pak, Inc.	Pipe wrap tape (black)
Thread Sealants	Allied Rubber & Gasket Company (ARGCO)	Super Dope
	Anti-Seize Technology	TFE Paste
	Devcon	Super Lock Hi-Strength, Stud Lock Grade 2271
	General Sealant	GS-600
	G.F. Thompson Co., Ltd.	Masters™ Pro-Dope™ with Teflon®
	Hercules	Brush-on/Blue Block
	Hernon Mfg. Inc.	Powerseal #932
	IPS	White Seal <i>Only IPS White Seal thread sealant displaying the FGG/BM logo is chemically compatible with Lubrizol CPVC products. Do not use if it does not carry the logo.</i>
	JC Whitlam Mfg. Co.	Seal Unyte Thread & Gasket Sealer
	Jet Lube, Inc.	Jet Lube V-2
	Jomar	Tighter-than-Tite
	Loctite	Threadlocker 242
	Lyn-Car Products Ltd.	Proseal
	National Starch & Chemical, Permabond Division	Permabond LH-050 Permabond LH-054
	Permatex Company, Inc.	Permatex 14H
	Rule	High Performance Teflon Thread Sealing Compound
Saf-T-Lok Chemical	Saf-T-Lok TPS Anaerobic Adhesive/Sealant, Industrial Grade TPS	
Swagelock Company	SWAK	

#### TERMITICIDES & INSECTICIDES

- When performing installations underslab or where the presence of insecticides or termiticides is likely, care should be taken to isolate CPVC pipe from direct contact with large quantities of these chemicals. Vinyl piping materials such as PVC or CPVC may be damaged when termiticides or insecticides are injected into the annular space between the pipe wall and sleeving material trapping the termiticide against the pipe wall. Termiticide applications per label instructions in an open-air environment, such as slab pretreat applications, should not pose a problem. However, puddling of termiticides on or near CPVC pipe may cause failures. In areas where puddling is more likely, such as areas near tub boxes and retreat applications, extra care should be taken to avoid puddling of termiticides. Exercising caution and common sense will prevent installation problems. For more information, review your manufacturer's installation guide.
- Additional precautions need to be taken when retreat applications are required. Termiticide retreatment is usually required when the concrete slab has been broken to relocate a pipe. The following recommendations should followed in retreat applications:
  - Remove all the plastic barrier material that was installed prior to the initial concrete pour from the area to be retreated. Do not reinstall the plastic barrier material.
  - After the pipe has been relocated, the soil should be pretreated before it is placed in hole around the pipe. Do not apply termiticide directly to the retreat area.
  - Termiticides that contain cypermethrin should not be used in retreat applications.
- In situations where sleeving is required, the pipe should be protected with a compatible sleeving material extending at least 12" above and below the soil. The top of the sleeving should be securely taped to the pipe with a compatible tape product. Backfill over underground piping prior to termiticide spraying.

## NOTES:

- Lubrizol recommends Teflon® tape as the preferred thread sealant.
- If it is necessary to use leak detectors on CPVC systems, only leak detectors that are included in the **FGG/BM® System Compatible Program** should be used. While common ordinary soaps are not detrimental to CPVC, most modern dishwashing liquids contain synthetic detergents, some of which may cause environmental stress cracking of fittings. For a complete list of products that are included in the **FGG/BM® System Compatible Products** refer to [www.flowguardgold.com](http://www.flowguardgold.com), [www.blazemaster.com](http://www.blazemaster.com), or [www.corzancpvc.com](http://www.corzancpvc.com).
- Lubrizol also publishes a more complete listing covering application of individual compounds. This may be found in the Lubrizol Chemical Resistance Chart for CPVC Piping Products. The user is also encouraged to compare data from the individual product's MSDS to the published Chemical Resistance Chart.
- Direct contact with flexible wire and cable that utilize insulation containing plasticizers is not recommended. Section 334.30 of the National Electric Code (2002 Edition) requires wire and cable to be secured by staples, cable ties, straps, or hangers. Air ducts, pipes and ceiling grid are not acceptable supports for wire and cable.
- HVAC applications - Some heat exchangers or condenser coils may contain residual oils from the manufacturing process which can cause cracking of CPVC. Caution should be exercised when installing CPVC in combination hot water/air heating units or as condensate drain lines for air conditioning systems. Confirm the compatibility of CPVC with the residual oils prior to installation. The interior of heat exchangers or the exterior of condenser coils may be thoroughly flushed with mild detergent solution to remove incompatible oils prior to piping installation. A rinse with clean water to completely clean the system is advisable as a final flushing.
- Primers, cleaners, and solvent cements containing appreciable amounts of acetone may cause rapid environmental stress cracking of CPVC metal insert parts during installation at freezing temperatures. Contact your primer/cleaner/solvent cement manufacturer for more information or recommendation of alternatives.
- When CPVC pipe is installed in kitchen areas the pipe must be protected from contact with grease or cooking oils. Consideration must be given to not only protecting the pipe from direct contact with grease or oil as well as contact that may occur from airborne grease or oil.
- When performing repairs to leaks in existing systems, care should be taken to isolate CPVC pipe from direct contact with heavy concentrations of fungicide products which may be applied during cleanup of water damage. Vinyl piping materials such as PVC or CPVC may be damaged by fungicides when fungicides are sprayed on surrounding drywall and wood framing to prevent the growth of mold and mildew in the affected area. Common sense precautions will prevent problems with repairs to existing systems. When repairs are made to an existing system, and the possibility exists that fungicides will be applied to treat damp drywall and wood framing surrounding the repair site, exposed piping should be sleeved with a compatible plastic sleeving or pipe insulation material to prevent direct contact of the fungicide with the plumbing system.
- Certain types of spray-on coatings which form a peelable film to protect fixtures during construction may be incompatible with CPVC. Care should be used to protect exposed piping from overspray when this type of protective coating is applied.
- CPVC is not compatible with some rubber and flexible vinyl materials containing certain types of plasticizers. Incompatible plasticizers include, but are not limited to, phthalates, adipates, trimellitates,

dibenzoates, etc. Compatibility should be confirmed before selecting rubber or flexible vinyl materials for direct contact with CPVC. Further, plasticizers may leach from rubber or flexible vinyl materials, such as hoses or tank linings, into the process fluid which contacts them. Plasticizer contamination in the process fluid may also cause environmental stress cracking of CPVC used elsewhere in the system. This can include both CPVC process piping, through which the contaminated fluid may flow, or CPVC ducting drawing fumes from contaminated fluid.

- Transitions from steel pipe to CPVC pipe can be made through a variety of methods such as threaded connections, flanges, and grooved adapters. Occasionally the steel pipe may contain residual oils that were used to aid in the cutting process. Some of the oils used for this purpose may be incompatible with CPVC. These cutting oils should be removed from the steel pipe prior to connecting to CPVC pipe. If a cutting oil is used consult with the manufacturer of the cutting oil for a specific recommendation as to compatibility with CPVC. Those cutting oils which are listed in the FGG/BM/CZ™ System Compatible program have been tested and confirmed to be compatible with FlowGuard Gold®, BlazeMaster®, and Corzan® CPVC.