



Spec Tech Bulletin (9/12/2024)

# Firestop Products & CPVC Pipes

## Preface

For many years, Chlorinated Polyvinyl Chloride (CPVC) Pipes have been used extensively in plumbing and fire sprinkler applications. However, CPVC pipes can be sensitive to certain chemicals or materials, and this can be exacerbated by factors such as the environments in which they are stored/used or temperature.

STI formulates its products to be safe for contact with most plastics, including CPVC. STI products are used extensively and successfully with various plastic pipes, tubes, and conduits, including CPVC. Variations in the polymer chemistry used for plastic pipes and fittings make it difficult for STI to guarantee compatibility. Therefore, we always recommend that contractors consult with the plastic pipe or fitting manufacturer regarding any known sensitivities or potential restrictions before product application and facility owners.

## Compatibility Programs for CPVC & Firestop Products

Leading CPVC suppliers have developed various proprietary methodologies to evaluate CPVC compatibility with ancillary products, including firestopping products. Two notable companies, Lubrizol and Spears, are progressive in evaluating CPVC compatibility.



Figure 1 – FBC System  
Compatible Mark

Lubrizol administers the FBC™ System Compatible Program, whereby they list products that are either compatible or incompatible with their FlowGuard®, BlazeMaster®, Corzan®, and TempRite® products. Registered products that comply are labeled with the FBC™ System Compatible Mark directly on the packaging and in the associated literature. The lists of products can be found here:

<https://www.lubrizol.com/CPVC/FBC-System-Compatible-Program>

Spears Manufacturing evaluates products commonly used with CPVC. They do not have a formal program or specific marking. However, they do publish limited information on their website and additionally evaluate products on a case-by-case basis for compatibility with Spears branded products. No mark for Spears Mfg. exists on product labeling or associated literature.

# Firestop Products & CPVC Pipes (continued)

## CPVC Compatible STI Products Recognized by FBC™ System Compatible

*SpecSeal® Series AS200 Elastomeric Spray*  
*SpecSeal® Series SSS Sealant*  
*SpecSeal® Series LCI Sealant*  
*SpecSeal® Series WF Firestop Caulk*  
*SpecSeal® Smoke N' Sound Sealant*  
*SpecSeal® Smoke N' Sound Spray*  
*BlazeMaster® Caulk & Walk® PRO (by STI)*  
*MSL Marine Silicone Sealant*  
*SpecSeal® Cast-in Firestop Device*

## CPVC Compatible STI Products Recognized by Spears Mfg.

*SpecSeal® Series SSS Sealant*  
*SpecSeal® Series LCI Sealant*  
*SpecSeal® Series SIL300 Sealant*  
*SpecSeal® Series WF Firestop Caulk*  
*BlazeMaster® Caulk & Walk PRO*  
*SpecSeal® Smoke N' Sound Sealant*  
*SpecSeal® Series LC150 Sealant*

*This list is current as of the date of this bulletin and may be subject to change at any time at the discretion of the CPVC manufacturer.*

## Conclusion

While formal evaluation schemes are available from Lubrizol and Spears Mfg., these are not directly applicable to all CPVC pipes and fittings manufactured by companies other than Lubrizol or Spears Mfg. STI highly recommends consulting the individual CPVC manufacturer for confirmation because every CPVC piping brand is made with unique compounds, performance additives, or resins with varying molecular weights or chlorine content, which may directly impact compatibility. **The CPVC manufacturer ultimately determines compatibility with ancillary products, including firestop products, and since their programs and criteria for measuring compatibility may change at any time, this information is provided as a reference only.**

## Additional Resources

The International Firestop Council (IFC) publishes recommendations on firestop products and CPVC. The document can be found here: [https://firestop.org/wp-content/uploads/2024/01/CPVC\\_Compatibility\\_with\\_firestops.pdf](https://firestop.org/wp-content/uploads/2024/01/CPVC_Compatibility_with_firestops.pdf)

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