



**BlazeMaster**<sup>®</sup>  
FIRE SPRINKLER SYSTEMS

## CPVC COMPATIBILITY BRIEFING BlazeMaster<sup>®</sup> Fire Sprinkler Systems

### Purpose of This Briefing

To ensure contractors, specifiers, engineers and Authorities Having Jurisdiction (AHJs) that BlazeMaster<sup>®</sup> Fire Sprinkler Systems – the most specified non-metallic fire sprinkler systems in the world – are approved for use in combined CPVC systems with internally coated steel systems that have been evaluated and approved by Factory Mutual (FM) Approvals, a Nationally Recognized Testing Laboratory (NRTL) accredited by the Occupational Safety and Health Administration (OSHA). FM Approvals is one of the foremost testing and approval laboratories in the fire protection industry. Approval from this organization is respected industry-wide.

### CPVC Compatibility With Internally Coated Steel

BlazeMaster systems can be used with internally coated steel pipe that has been tested and approved by FM Approvals for use with CPVC systems.

### Policy Changes

Some manufacturers question whether CPVC is compatible with internally coated steel piping. This is clearly the case as demonstrated by CPVC's approval by FM Approvals (as stated above). **Furthermore, changes in NFPA standards 13 and 13R** state that steel pipe coating shall be investigated for compatibility with non-metallic piping by a testing laboratory, such as FM.

### What This Means for Specifiers, Contractors, Engineers and AHJs

FM Approvals conducts scientific research and specification testing, approving products that meet its arduous loss-prevention standards. **An FM Approval eliminates any compatibility doubts for contractors, specifiers, engineers and AHJs.**

### Greater Corrosion Resistance

Unlike other fire sprinkler systems, BlazeMaster systems resist corrosion, both inside and out, when in contact with aggressive water, microbiologically influenced corrosion (MIC) and seaside salt-air atmospheres. BlazeMaster systems are not susceptible to galvanic corrosion and can be combined with metal systems including copper and steel.



## **BlazeMaster<sup>®</sup>** FIRE SPRINKLER SYSTEMS

### **CPVC: Proven to Reduce Environmental Impact**

BlazeMaster systems have been leading the industry in sustainability for more than 25 years. According to a **2011 ISO**-compliant, peer-reviewed life-cycle assessment,\* BlazeMaster Fire Sprinkler Systems outperform steel systems in 12 out of 13 environmental categories, including climate change impact, metal depletion and energy consumption. Requiring no torches or complicated heat-fusion techniques during installation, BlazeMaster systems protect the environment without damaging project schedules or budgets.

### **The BlazeMaster Position**

We believe that fire protection should be trusted to the most specified non-metallic fire sprinkler systems in the world. BlazeMaster systems deliver unparalleled performance and protection that well-known third-party Listing, approval and certification organizations have verified.

### **Trusted Benefits Only a BlazeMaster System Can Deliver:**

#### **FBC™ System Compatible Program**

The FBC™ System Compatible Program helps you get the ultimate performance from your BlazeMaster systems. It is the industry's only program that tests and monitors certain ancillary products for chemical compatibility with non-metallic piping systems. The program is specifically tested and only applicable with Lubrizol CPVC piping systems.

#### **Listings and Approvals**

Only BlazeMaster systems offer all of the following:

- UL Listed for exposed use in basements constructed with solid wood or composite wood joists
- Approved for extended-coverage sprinkler heads
- Approved for exposed installations (see manufacturer's installation instructions)

#### **The Power of Lubrizol CPVC**

Made from Lubrizol's superior CPVC compounds, BlazeMaster systems have More Inside™ – including access to Lubrizol CPVC's technical experts and global capabilities.

**Depend on the unmatched performance of BlazeMaster Fire Sprinkler Systems. Learn more about compatibility and find links to Factory Mutual Global and other supporting documents at [lubrizol.com/blazemasternews](http://lubrizol.com/blazemasternews).**

\*2011 ISO-compliant, peer-reviewed life-cycle assessment performed by Environmental Resources Management Limited (ERM).