



# Universal Polymers Corp.

A Division of General Coatings Manufacturing Corp.

May 15th, 2020

To Whom it May Concern,

Please allow me to address any concerns regarding the use of our SPF products and chlorinated poly (vinyl chloride) (CPVC) piping used for domestic water and fire suppression systems. UPC's family of spray polyurethane products, UPC 500, UPC 500 Max, UPC 500 OCX, UPC 2.0 and UPC 1.7, are compatible with and perfectly safe to be applied around and in contact with CPVC and will not cause environmental stress cracking or failure to the pipe.

The Spray Polyurethane Foam Alliance (SPFA), working in conjunction with a major supplier of CPVC materials, commissioned an extensive study to investigate the potential for environmental stress cracking or ESC.

Attached is a letter from James R. Paschal, P.E. of Paschal Engineering & Forensic Consulting, Inc. on the results of the joint study by the Spray Polyurethane Foam Alliance and Lubrizol Corporation on the compatibility of various spray polyurethane foam insulations over cPVC pipe. The test was performed at Lubrizol's laboratory and conducted over a period of 6,000 hours in a near worst case scenario. The results of the study show that all of the SPF products tested, including open-cell SPF, closed-cell SPF, one-component foams, and foams made from natural-oil based materials do not cause ESC and are compatible in direct contact with CPVC piping systems.

Also attached is a white paper from the SPFA discussing the compatibility of CPVC and SPF. Links to the actual studies are included in the document.

Thank you again for considering UPC's family of SPF products. Please do not hesitate to contact me with any further questions.

Sincerely,

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