

Are you risking CPVC Failure?

By treating it like PVC?



The above pipe was installed in contact with plasticizers

The Chlorination of Polyvinyl Chloride (PVC), to make Chlorinated Polyvinyl Chloride (C-PVC) makes the material **highly susceptible to embrittlement** – which leads to **environmental stress cracking** when exposed to plasticizers contained in most rubbers, caulking, grouts, and many other sealants (Including LINK-SEAL® Models C, S-316, LS and OS).

C-PVC is often used in hot water distribution, fire sprinkler, and other systems and in each case it must be treated as a unique application. Assuming C-PVC can use the same sealing or elastomers as PVC can be dangerous and compromise the longevity of the system or **cause a catastrophic failure!**

MAJOR MANUFACTURERS OF C-PVC PIPING PUBLISH THE FOLLOWING WARNINGS:

“Fire Stops Materials: Some fire-stop sealants contain solvents, plasticizers or other chemical additives that can cause damage to C-PVC. Only compatible fire-stop materials (i.e. silicon-based) should be used with C-PVC.”

(Harvel® C-PVC Fire Sprinkler Piping Products – Chemical Compatibility)

“Examples of materials which may contain incompatible plasticizers include, but are not limited to, caulks, rubbery hanger padding, vinyl dip coating on metal parts, rubber gaskets, electrical wire jacketing, electrical tape, flexible hoses or tubes, etc. 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 C-PVC used elsewhere in the system.”

(Lubrizol C-PVC Piping Systems – Other Compatibility Topics)



Garlock now offers a unique, proven solution to sealing C-PVC pipe passing through any wall, floor, or ceiling, without degrading the pipe!



LINK-SEAL® Model C-PVC

LINK-SEAL® Model C-PVC uses the same silicone polymer molded sealing elements in our fire-rated Model T's which do not contain plasticizers. Additionally, the nylon pressure plates and stainless steel-316 hardware will provide our legendary minimum seal rating of 40' of static head/20 PSIG in all below-ground, wet or moist penetrations, while also maintaining the integrity of the C-PVC piping system and its long-term performance.

PSI 1:35_04.2021

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