General Specification

Product Features

PVC / Corzan CPVC piping systems are produced from specialty plastic compounds known as polyvinyl chloride (PVC) / post- chlorinated polyvinyl chloride (CPVC). The compounds shall meet cell class 12454 / 23447B as defined by ASTM D1784 and have a design stress of 2000 psi and a maximum service temperature of 140* / 210*. The compound shall be listed by the National Sanitation foundation for use with potable water in accordance with NSF standard 14. The color is gray / light gray.

Pipe: Pipe shall meet or exceed the requirements of ASTM D1785 (PVC) / F441 (CPVC) in Schedule 40 and 80 dimensions. Available in size range 1/2"-16".

Fittings: Fittings shall meet or exceed the requirements of ASTM D2464 (PVC) / F437 (CPVC) (Schedule 80 threaded) or ASTM D2467 (PVC) / F439 (CPVC) (Schedule 80 socket). Available in size range 1/2"-16".

Primer/Solvent Cement: All socket type joints shall be made up employing primers and solvent cements that meet or exceed the requirements of ASTM F656 and ASTM D2564 (PVC) / F493 (CPVC) respectively. The standard practice for safe handling of primer and cement shall be in accordance with ASTM F402. Both primer and solvent cement shall conform with the requirements of NSF Standard 14. Only PVC/ CPVC primer and solvent cement shall be used when making PVC / CPVC solvent cement joints.

Markings and Uniformity: Pipe and fittings made from Corzan CPVC compounds shall be clearly marked with the manufacturer's name or trademark, material designation, applicable ASTM Standard, and the NSF seal for potable water use.

Basic Use

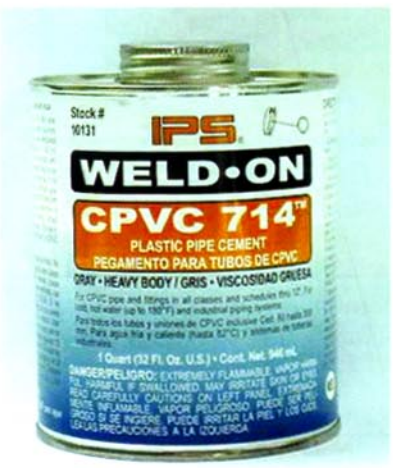
PVC / Corzan CPVC pipe and fittings are intended for use in both pressure and drain applications in general chemical manufacturing plants, pulp and paper plants, waste water treatment plants, metal treating / electroplating plants, water purification plants, semiconductor / electronics manufacturers and food processing plants where excellent resistance to corrosion from a wide range of chemicals, acids, and bases at temperatures up to 140°F / 210°F is required.

System Design

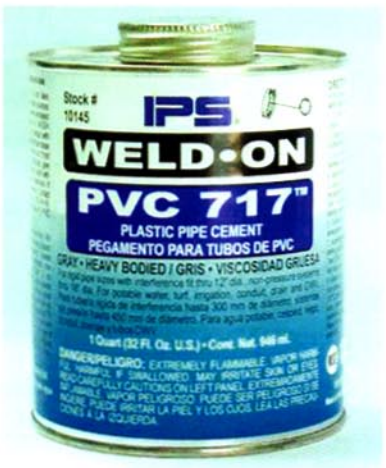
System design shall be in accordance with standard industry practice for thermoplastic industrial piping systems and shall take into consideration such factors as pressure and flow requirements, friction loss, operating temperatures, support spacing, anchoring, bracing and thrust blocking, temperature correction factors, joining methods, chemical environment, collapse and loading, and thermal expansion and contraction.

Limitations

- Air or compressed gas shall never be used for pressure testing rigid thermoplastic piping systems.
- Temperature correction factors shall be applied when operating temperatures exceed 73°.
- Only Schedule 80 pipe may be threaded up to and including 4" size, and the threads shall be in accordance with ANSI B1.20.1 Taper Pipe Thread.
- Only water soluble oil or water shall be used when threading PVC / Corzan CPVC Pipe.
- Degreasing type solvents shall never be used to clean threads.
- Only Teflon tape shall be used when making plastic threaded connections.
- Flanged systems shall not exceed 150 psi working pressure.
- Threaded joints shall have 50% of the pressure rating of Schedule 80 pipe.
- PVC / Corzan CPVC is not recommended for use with most polar organic solvents such as chlorinated or aromatic hydrocarbons, esters, or ketones. Prior testing is recommended when required service includes surfactants, oil, or grease. Consult Hershey Valve for specific chemical resistance information.



714 CPVC
Solvent Cement



717 UPVC
Solvent Cement

P-70 PRIMER UPVC
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