



# LEAK-PROOF?

THINK TOUGH, RESISTANT 724™



Specifically formulated for joining CPVC and PVC industrial piping systems carrying corrosive chemicals, WELD-ON 724™ is the most chemical resistant CPVC solvent cement in the industry. Laboratory analysis showed no joint failure even after 2,500 hours of pressure tests in numerous chemical solutions.

WELD-ON 724™ is  and  listed, meets ASTM F 493 standard, and is approved for Corzan® industrial piping systems. For CPVC and PVC pipe and fittings with interference fit up to 12 inches (315 mm) diameter, all classes & schedules. This LOW VOC product meets strict environmental air quality regulations and can qualify for credit under the LEED® Green Building Rating System.



Stock #	Can Size / Packaging	Cement Color	Units Per Case	Lbs Per Case
12817	Gallon metal, wide-mouth can with screw top	Orange	6	56
12818	Quart metal can with applicator top	Orange	12	29
12233	Gallon metal, wide-mouth can with screw top	Gray	6	56
11659	Quart metal can with applicator top	Gray	12	29
11890	Pint metal can with applicator top	Gray	12	15

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# WELD-ON® 724™

## CHEMICAL RESISTANCE DATA

Weld-On commissioned an independent third-party laboratory to conduct chemical resistance tests on CPVC and PVC piping systems under controlled pressure and temperature conditions similar to those normally found in the chemical processing industry. The tests were conducted for continuous 2,500 hours with CPVC and PVC piping systems carrying a variety of chemical solutions. **The resulting data conclusively showed no joint failure in all tests.**

### CPVC TEST DATA

All CPVC joints were solvent-welded with Weld-On 724. Test duration = 2,500 hours.

CHEMICAL		CONCENTRATION	TEMPERATURE °F (°C)	PRESSURE PSI (BARS)	HYDROSTATIC TESTING
Acetic Acid	CH <sub>3</sub> COOH	20%	180 (82)	100 (7)	No Failure
Chromic Acid	H <sub>2</sub> CrO <sub>4</sub>	40%	180 (82)	100 (7)	No Failure
Ethylene Glycol	HOCH <sub>2</sub> CH <sub>2</sub> OH	50%	180 (82)	100 (7)	No Failure
Hydrochloric Acid	HCl	37%	180 (82)	100 (7)	No Failure
Nitric Acid	HNO <sub>3</sub>	35%	180 (82)	100 (7)	No Failure
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	85%	180 (82)	100 (7)	No Failure
Propylene Glycol	CH <sub>3</sub> CHOHCH <sub>2</sub> OH	25%	180 (82)	100 (7)	No Failure
Sodium Hydroxide	NaOH	50%	180 (82)	100 (7)	No Failure
Sodium Hypochlorite (Bleach)	NaOCl	Fresh chemical added twice weekly	180 (82)	100 (7)	No Failure
Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>	80%	180 (82)	100 (7)	No Failure
Water, distilled	H <sub>2</sub> O	—	180 (82)	100 (7)	No Failure

### PVC TEST DATA

All PVC pipe joints were solvent-welded with WELD-ON 724. Test duration = 2,500 hours.

CHEMICAL		CONCENTRATION	TEMPERATURE °F (°C)	PRESSURE PSI (BARS)	HYDROSTATIC TESTING
Acetic Acid	CH <sub>3</sub> COOH	20%	140 (60)	100 (7)	No Failure
Chromic Acid	H <sub>2</sub> CrO <sub>4</sub>	40%	140 (60)	100 (7)	No Failure
Ethylene Glycol	HOCH <sub>2</sub> CH <sub>2</sub> OH	100%	140 (60)	100 (7)	No Failure
Hydrochloric Acid	HCl	37%	140 (60)	100 (7)	No Failure
Nitric Acid	HNO <sub>3</sub>	35%	140 (60)	100 (7)	No Failure
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	85%	140 (60)	100 (7)	No Failure
Propylene Glycol	CH <sub>3</sub> CHOHCH <sub>2</sub> OH	100%	140 (60)	100 (7)	No Failure
Sodium Hydroxide	NaOH	50%	140 (60)	100 (7)	No Failure
Sodium Hypochlorite (Bleach)	NaOCl	Fresh chemical added twice weekly	140 (60)	100 (7)	No Failure
Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>	90%	140 (60)	100 (7)	No Failure
Water, distilled	H <sub>2</sub> O	—	140 (60)	100 (7)	No Failure
Ammonium Hydroxide	NH <sub>4</sub> OH	10%	140 (60)	100 (7)	No Failure

There will be variables that will affect the chemical resistance of thermoplastic piping systems such as: temperature, pressure, chemical concentration, and external stresses that may exist in the design and construction of the system. Be sure to take into consideration the specific use conditions that will apply to your project. The final decision to use CPVC or PVC piping should be based on in-service testing and evaluation by the responsible engineer and end-user.

**The use of WELD-ON® P-70™ Purple Primer is recommended when installing CPVC and PVC piping systems for chemical applications.**