

# Weld-On 724: The World's Most Specified CPVC Solvent Cement

Weld-On 724 has been consistently used for the most critical applications. It has been specified in semi-conductor production, wastewater treatment facilities, and commercial construction projects across the globe.

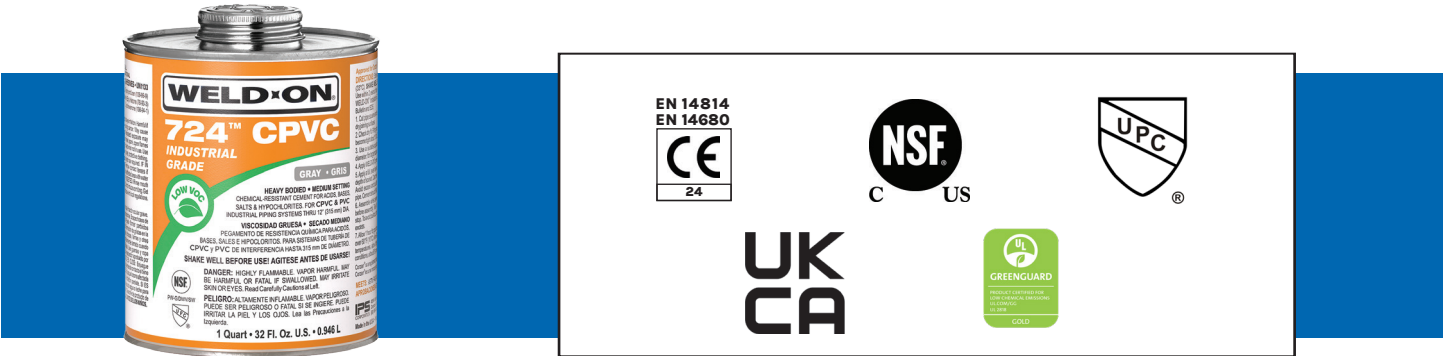
Weld-On 724 is specifically formulated for joining CPVC and PVC industrial piping systems carrying corrosive chemicals. It is the most chemical resistant CPVC solvent cement in the industry.

Laboratory analysis showed no joint failure even after 1,000 hours of pressure tests in numerous chemical solutions.

Weld-On 724 is UPC and NSF PW-G / DWV / SW® listed, meets ASTM F 493 standard, and is approved for Corzan® industrial piping systems. It is used for CPVC and PVC pipe and fittings with interference fit up to 12 inches (315 mm) diameter, all classes & schedules. This cement is GreenGuard Gold certified by UL and can be used for LEED® Green Building credits.



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.



Available in Orange,  
Gray and Clear

# 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 1,000 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 = 1,000 hours.

CHEMICAL		CONCENTRATION	TEMPERATURE °F (°C)	PRESSURE PSI (BARS)	HYDROSTATIC TESTING
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	100%	180 (82)	100 (7)	No Failure
Hydrochloric Acid	HCl	37%	180 (82)	100 (7)	No Failure
Nitric Acid	HNO <sub>3</sub>	70%	180 (82)	100 (7)	No Failure
Propylene Glycol	CH <sub>3</sub> CHOHC <sub>2</sub> H <sub>4</sub> OH	100%	180 (82)	100 (7)	No Failure
Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>	98%	180 (82)	100 (7)	No Failure
Water, distilled	H <sub>2</sub> O	—	180 (82)	100 (7)	No Failure
Fluorosilicic Acid	H <sub>2</sub> SiF <sub>6</sub>	25%	180 (82)	100 (7)	No Failure
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	35%	180 (82)	100 (7)	No Failure
Calcium Hypochlorite	Ca <sub>2</sub>	70%	180 (82)	100 (7)	No Failure
Hydrofluoric Acid	HF	50%	140 (60)	100 (7)	No Failure

### PVC TEST DATA

All PVC pipe joints were solvent-welded with WELD-ON 724. Test duration = 1,000 hours.

CHEMICAL		CONCENTRATION	TEMPERATURE °F (°C)	PRESSURE PSI (BARS)	HYDROSTATIC TESTING
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
Propylene Glycol	CH <sub>3</sub> CHOHCH <sub>2</sub> OH	100%	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	H <sub>2</sub> SiF <sub>6</sub>	10%	140 (60)	100 (7)	No Failure
Fluorosilicic Acid	NH <sub>4</sub> OH	25%	140 (60)	100 (7)	No Failure
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	35%	140 (60)	100 (7)	No Failure
Calcium Hypochlorite	Ca <sub>2</sub>	70%	140 (60)	100 (7)	No Failure
Hydrofluoric Acid	HF	50%	140 (60)	100 (7)	No Failure