

# METAL REPAIR SYSTEMS & CERAMIC LININGS CHEMICAL RESISTANCE CHART

## METAL REPAIR SYSTEMS & CERAMIC LININGS

## CHEMICAL RESISTANCE CHART



**UNIQUE POLYMER  
SYSTEMS**

INNOVATE | REBUILD | ENHANCE

Chemical	UPS 105 EG	UPS 125 XFP	UPS 115 XL	UPS 200 EG	UPS 205 FG	UPS 210 CR	UPS 519 HD / UPS 241 HDX	UPS 225 HT	UPS 226 HAC
Acetic Acid <10%	2	3	3	2	2	2	3	2	2
Acetic Acid <20%	3	3	3	3	3	3	3	3	3
Acetic Acid >20%	4	4	4	4	4	2	4	4	4
Acetone	3	3	3	3	3	3	3	1	2
Alums	1	1	1	1	1	1	1	1	1
Aluminum Chloride (Dry)	1	1	1	1	1	1	1	1	1
Aluminum Sulphate	1	1	1	1	1	1	1	1	1
Ammonium Carbonate	1	1	1	1	1	1	1	1	1
Ammonium Hydroxide 0-10%	1	2	1	1	1	1	1	1	1
Ammonium Hydroxide 10-20%	1	3	2	1	1	1	1	1	1
Ammonium Hydroxide +20%	3	3	3	3	3	3	3	1	1
Ammonium Phosphate	1	1	1	1	1	1	1	1	1
Ammonium Nitrate	1	1	1	1	1	1	1	1	1
Amyl Acetate	1	2	2	1	1	1	1	1	1
Amyl Alcohol	2	2	2	2	2	2	2	1	1
Apple Juice	1	1	1	1	1	1	1	1	1
Aviation Fuel	1	2	2	1	1	1	1	1	1
Barium Carbonate	1	1	1	1	1	1	1	1	1
Barium Chloride	1	1	1	1	1	1	1	1	1
Barium Hydroxide	1	1	1	1	1	1	1	1	1
Barium Sulphate	1	1	1	1	1	1	1	1	1
Barium Sulphide	1	1	1	1	1	1	1	1	1
Beet	1	1	1	1	1	1	1	1	1
Beet Sugar Liquor	2	3	2	2	2	2	2	1	2
Benzene	1	4	2	1	2	1	2	1	1
Benzoic Acid	2	3	2	2	2	2	2	2	2
Bleach	3	3	3	3	3	3	3	2	3
Brake Fluid	1	2	2	1	1	1	1	1	1
Brine	1	1	1	1	1	1	1	1	1
Bunker Oil	1	2	2	1	1	1	1	1	1
Butyl Acetate	1	2	2	1	1	1	1	1	1
Butyl Alcohol	1	2	2	1	1	1	1	1	1
Calcium Carbonate	1	1	1	1	1	1	1	1	1
Calcium Chloride	1	1	1	1	1	1	1	1	1
Calcium Hydroxide	1	1	1	1	1	1	1	1	1
Calcium Hypochlorite	2	3	3	2	2	2	2	2	2
Calcium Sulphate	1	1	1	1	1	1	1	1	1
Carbon Dioxide (Dry)	1	1	1	1	1	1	1	1	1
Carbon Monoxide	1	1	1	1	1	1	1	1	1
Carbon Tetrachloride	2	3	2	2	2	2	2	2	2
Carbonic Acid 0-10 %	1	1	1	1	1	1	1	1	1
Carbonic Acid 30%	2	2	2	2	2	2	2	2	2
Castor Oil	1	1	1	1	1	1	1	1	1
Chlorine Dry	1	1	1	1	1	1	1	1	1

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Chemical	UPS 105 EG	UPS 125 XFP	UPS 115 XL	UPS 200 EG	UPS 205 FG	UPS 210 CR	UPS 241 HDX	UPS 225 HT	UPS 226 HAC
Chlorine Wet	2	3	2	2	2	2	2	2	2
Chlorobenzene	2	3	3	2	2	2	2	2	2
Chloroform	2	3	3	2	2	2	2	2	2
Chromic Acid 10%	2	3	3	2	2	2	2	2	2
Coconut Oil	1	1	1	1	1	1	1	1	1
Cod Liver Oil	1	1	1	1	1	1	1	1	1
Copper Chloride	1	1	1	1	1	1	1	1	1
Copper Nitrate	1	1	1	1	1	1	1	1	1
Copper Sulphate	1	1	1	1	1	1	1	1	1
Creosote	3	3	3	3	3	3	3	3	3
Cresylic Acid	4	4	4	4	4	4	4	3	3
Crude Oil Sweet	1	2	1	1	1	1	1	1	1
Crude Oil Sour	1	2	2	1	1	1	1	1	1
Cyclohexane	1	3	2	1	1	1	1	1	1
Cyclohexanol	1	2	2	1	1	1	1	1	1
Di-Acetone Alcohol	2	2	2	2	2	2	2	1	1
Di- Butyl Ether	1	2	2	1	1	1	1	1	1
Diethylamine	4	4	4	4	4	4	4	2	2
Diesel Oil	1	1	1	1	1	1	1	1	1
Diethanolamine	1	2	1	1	1	1	1	1	1
Ethyl Acetate	1	3	3	1	1	1	1	1	1
Ethyl Acrylate	2	2	2	2	2	2	2	1	1
Ethyl Alcohol	2	3	3	2	2	2	2	1	1
Ethylene Glycol	1	2	1	1	1	1	1	1	1
Ferric Chloride	2	2	2	2	2	2	2	1	1
Ferric Sulphate	1	1	1	1	1	1	1	1	1
Formic Acid 10%	3	4	3	3	3	3	3	2	2
Gasoline (petrol)	1	1	1	1	1	1	1	1	1
Glycerol	1	2	1	1	1	1	1	1	1
Heptane	1	1	1	1	1	1	1	1	1
Hexane	1	1	1	1	1	1	1	1	1
Hexanol	1	1	1	1	1	1	1	1	1
Hydrobromic Acid 0-10%	1	3	1	1	1	1	1	1	1
Hydrobromic Acid 40%	3	3	3	3	3	1	3	3	2
Hydrochloric Acid 0-10%	1	3	1	1	1	1	1	2	1
Hydrochloric Acid 10-20%	1	3	3	1	1	1	1	2	1
Hydrochloric Acid 36%	3	4	4	3	3	3	3	2	2
Hydrofluoric Acid 10%	3	3	3	3	3	3	3	3	2
Hydrofluoric Acid 20%	4	4	4	4	4	4	4	4	3
Hydraulic Oil	1	1	1	1	1	1	1	1	1
Iso Propyl Ether	1	2	2	1	1	1	1	1	1
Iso Octane	1	1	1	1	1	1	1	1	1
Kerosine	1	1	1	1	1	1	1	1	1
Lactic Acid 10%	2	4	3	2	2	2	2	3	2
Lemon Juice	2	3	2	2	2	2	2	2	2
Lime Water	1	1	1	1	1	1	1	1	1
LPG	1	1	1	1	1	1	1	1	1
Lubricating Oil	1	1	1	1	1	1	1	1	1
Magnesium Chloride	1	1	1	1	1	1	1	1	1
Magnesium Hydroxide	1	1	1	1	1	1	1	1	1
Magnesium Sulphate	1	1	1	1	1	1	1	1	1
Maleic Acid	2	3	2	2	2	2	2	2	2
Mercury	1	1	1	1	1	1	1	1	1
Methane	1	1	1	1	1	1	1	1	1
Methyl Acetate	1	3	3	1	1	1	1	1	1
Methyl Alcohol	3	3	3	3	3	3	3	1PC	2PC
Methylene Chloride	4	4	4	4	4	4	4	1PC	2PC

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Chemical	UPS 105 EG	UPS 125 XFP	UPS 115 XL	UPS 200 EG	UPS 205 FG	UPS 210 CR	UPS 241 HDX	UPS 225 HT	UPS 226 HAC
Methyl Ethly Ketone	2	4	4	2	2	2	2	1	1
Molasses	1	1	1	1	1	1	1	1	1
Naptha	1	2	1	1	1	1	1	1	1
Natural Gas	1	1	1	1	1	1	1	1	1
Nitric Acid 0-10%	1	3	2	1	1	1	1	2	1
Nitric Acid 10-2-%	2	3	3	2	2	2	2	2	1
Nitric Acid +20%	4	4	4	4	4	4	4	2	1
Nitrous Acid 0-10%	1	2	2	1	1	1	1	2	1
Octane	1	1	1	1	1	1	1	1	1
Oleum	4	4	4	4	4	4	4	2	1
Oleic Acid	2	2	2	2	2	2	2	2	2
Orange Juice	1	1	1	1	1	1	1	1	1
Parafin	1	1	1	1	1	1	1	1	1
Parafin Wax	1	1	1	1	1	1	1	1	1
Palmitic Acid	2	2	2	2	2	2	2	2	2
Palm Oil	1	1	1	1	1	1	1	1	1
Petrol	1	1	1	1	1	1	1	1	1
Petroleum Oil	1	1	1	1	1	1	1	1	1
Phenol (100%)	4	4	4	4	4	3	4	3	4
Phenol (10%)	3	3	3	3	3	3	3	3	3
Phosphoric Acid 0-10%	2	2	2	2	2	2	2	2	1
Phosphoric Acid 80%	3	3	3	3	3	3	3	2	1
Potassium Bromide	1	1	1	1	1	1	1	1	1
Potassium Carbonate	1	1	1	1	1	1	1	1	1
Potassium Chlorate	1	1	1	1	1	1	1	1	1
Potassium Chloride	1	1	1	1	1	1	1	1	1
Potassium Diphosphate	1	1	1	1	1	1	1	1	1
Potassium Hydroxide 10%	1	1	1	1	1	1	1	1	1
Potassium Hydroxide 20%	1	2	2	1	1	1	1	1	1
Potassium Iodide	1	1	1	1	1	1	1	1	1
Potassium Nitrate	1	1	1	1	1	1	1	1	1
Potassium Sulphate	1	1	1	1	1	1	1	1	1
Potassium Sulphide	1	1	1	1	1	1	1	1	1
Propane	1	1	1	1	1	1	1	1	1
n-Propanol	1	1	1	1	1	1	1	1	1
Propylene Glycol	1	1	1	1	1	1	1	1	1
Propylene Glycol	1	2	1	1	1	1	1	1	1
Propylene Glycol Methyl Ether	2	3	3	2	2	2	2	2	2
Propylene Glycol Methyl Ether Acetate	2	3	3	2	2	2	2	2	2
Sewage	1	2	1	1	1	1	1	1	1
Sodium Bicarbonate	1	1	1	1	1	1	1	1	1
Sodium Bisulphate	1	1	1	1	1	1	1	1	1
Sodium Borate	1	1	1	1	1	1	1	1	1
Sodium Carbonate	1	1	1	1	1	1	1	1	1
Sodium Chlorate	1	1	1	1	1	1	1	1	1
Sodium Chloride	1	1	1	1	1	1	1	1	1
Sodium Chromate	1	1	1	1	1	1	1	1	1
Sodium Hydroxide 10%	1	2	1	1	1	1	1	1	1
Sodium Hydroxide 40%	1	3	3	1	1	1	1	1	1
Sodium Hypochlorite (bleach)	2	3	3	2	2	2	2	2	2
Sodium Nitrate	1	1	1	1	1	1	1	1	1
Sodium Silicate	1	1	1	1	1	1	1	1	1
Sodium Sulphate	1	1	1	1	1	1	1	1	1
Starch	1	1	1	1	1	1	1	1	1

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Chemical	UPS 105 EG	UPS 125 XFP	UPS 115 XL	UPS 200 EG	UPS 205 FG	UPS 210 CR	UPS 241 HDX	UPS 225 HT	UPS 226 HAC
Styrene	1	2	2	1	1	1	1	1	1
Sulphuric Acid 0-10%	1	3	1	1	1	1	1	2	1
Sulphuric Acid 10-20%	2	3	2	2	2	2	2	2	1
Sulphuric Acid +20%	3	4	3	3	3	3	3	2	1
Sulphuric Acid 98%	4	4	4	4	4	4	4	2	1
Sulphur Dioxide Gas Dry	1	1	1	1	1	1	1	2	1
Tar	2	2	2	2	2	2	3	2	2
Tetrachlorethylene	2	3	3	2	2	2	2	2	2
Toluene	1	2	2	1	1	1	1	1	1
Transformer Oil	1	1	1	1	1	1	1	1	1
Tri Butyl Phosphate	1	1	1	1	1	1	1	1	1
Trichloroethylene	2	3	3	2	2	2	2	2	2
Urea	1	1	1	1	1	1	1	1	1
Vinegar	1	1	1	1	1	1	1	1	1
Water	1	1	1	1	1	1	1	1	1
Waxes	1	1	1	1	1	1	1	1	1
Whiskey	2	3	3	2	2	2	2	1	1
White Spirit	1	1	2	1	1	1	1	1	1
Xylene	1	2	2	1	1	1	1	1	1
Zinc Chloride	1	1	1	1	1	1	1	1	1
Zinc Hydrosulphite	1	1	1	1	1	1	1	1	1
Zinc Sulphate	1	1	1	1	1	1	1	1	1

## Key:

- 1 – Suitable for continuous immersion at 20°C (68°F)
- 2 – Suitable for short term immersion (3 days maximum) at 20°C
- 3 – Suitable for short term contact, e.g. quickly removed splashes or spills
- 4 – Not suitable for contact

PC – Post Cured (Please refer to Technical Data Sheet for further details)

*Please Note: If you are unsure about the chemical resistance of any UPS Product, then please contact immediately.*