POLYCO
POLYUREA SOLUTIONS

Chemical Resistance

Aromatic Polyurea System

Technical

Chemical Resistance

This document contains chemical exposure to polyurea coatings based on various ASTM tests. This is by no means exhaustive,. We have covered a large number of common chemicals to which polyurea coatings may be exposed. If you do not see a particular chemical listed here, please contact us for further information.

ASTM D3912 - 25°C Exceeds 1 Year

R = Recommended
C = Recommended Conditionally (washdown within 1 hour of spillage)
N = Not Recommended
1 = Suitable for immersion and/or splash and spillage conditions
2 = Suitable for occasional or intermittent contact for up to 72 hours

Acetic Acid 10%	C
Ammonium Hydroxide 10% / 20%	R
Diesel Fuel	R
Gasoline	R
Hydraulic Fluid	R
Hydrochloric Acid 5% / 10%	R
Methanol	R
Motor Oil	R
MTBE	R
MTBE / Gasoline 5%	R
NaCl / Water 10%	R
Phosphoric Acid 10%	R
Potassium Hydroxide 10% / 20%	R
Sodium Hydroxide 10% / 20% / 50%	R
Sugar / Water 10%	R
Sulfuric Acid 5% / 10%	R
Skydrol	2
Toluene	C
Water	R
2-Methylbutane	R

ASTM B117 After 1000 Hours

Test	Result
Blistering, Bare Steel	None
Corrosion from Scribe, mm	4.0
Adhesion, psi, Elcometer	>2000

ASTM D5322

Jet Fuel	R

ASTM D1308 - 25°C Exceeds 1 Year

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N = Not Recommended
1 = Suitable for immersion and/or splash and spillage conditions
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Acetone	C
Antifreeze	R
Benzene	R
Benzonic Acid	R
Butyl Alcohol	R
Butyl Cellosolve	R
Carbon Dioxide	R
Calcium Hypochlorite	N
Chlorine (5000ppm in water)	2
Citric Acid	R
Cylloexanol	R
Dichloroacetic Acid	C
Dimenthyl Formamide	N
Ethanol	2
Ethylene Glycol	1
Gasoline	R
Hexane	R
Hydraulic Oil	R
Lactic Acid 10%	1
Methylene Chloride	C
Methyl Ethyl Ketone	C
Methanol	R
Mineral Spirits	R
Monobutyl Ether	R
Nitric Acid 20%	C
Phenol	2
Skydrol	2
Sodium Bicarbonate	R
Sodium Chloride	R
Sodium Hydroxide 50%	R
Sodium Hypochlorite 10%	2
Stearic Acid	R
Styrene	2
Sulfuric Acid 70%	N
Trichloroethylene	C
Trisodium Phosphate	R
Toulene	R
Vinegar	R
Xylene	C