

This technical bulletin contains VersaFlex's recommendations for chemical exposure to polyurea coatings based on various ASTM tests. This is by no means exhaustive, however 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.

AROMATIC CHEMICAL RESISTANCE

Note: These recommendations are for VersaFlex Aromatic Polyurea.

LEGEND / KEY

- 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

Test Procedure: ASTM D3912 25°C

Exceeds 1 Year

Test Media

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

Test Procedure: ASTM B117

After 1000 Hours

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

Note: Applied at 2-mil blast profile, KTA-Tator panels. No primer.

Test Procedure: ASTM D 5322

Jet Fuel A	R
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Test Procedure: ASTM D1308 25°C Exceeds 1 Year

Test Media

Acetone	C
Antifreeze	R
Benzene	R
Benzoic Acid	R
Butyl Alcohol	R
Butyl Cellosolve	R
Carbon Dioxide	R
Calcium Hypochlorite	N
Chlorine (5000 ppm in water)	2
Citric Acid	R
Cylohexanol	R
Dichloroacetic Acid	C
Dimethyl Formamide	N
Ethanol	2
Ethylene Glycol	1
Gasoline	R
Hexane	R
Hydraulic Oil	R
Lactic Acid 10%	1

Test Media

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
Toluene	C
Vinegar	R
Xylene	C



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