Precidium™ ECS™ Polyurea

CHEMICAL RESISTANCE CHART A

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

Test Procedure: **ASTM D3912 25°C**
Exceeds 1 Year

Test Media	Rating
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 D1308 25°C**
Exceeds 1 Year

Test Media	Rating
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
Cyclohexanol	R
Dichloacetic Acid	C
Dimethyl 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
Sulfuric Acid 70%	N
Trichloroethylene	C
Trisodium Phosphate	R
Toluene	C
Vinegar	R
Xylene	C

These are approximate values only and should not be considered specifications. This data sheet is intended for general information only.

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CHEMICAL RESISTANCE CHART B

Measurements were taken after 200 hours of storage at room temperature.

KEY (decrease in Mechanical Properties):
1 - 0 to 5% Decrease
2 - 5 to 15% Decrease
3 - > 15% Decrease

Chemical	Rating	Chemical	Rating
Acetic Acid, 2%	1	Linseed Fatty Acid	1
Acetic Acid, 5%	1	Methanol	2
Acetic Acid, 10%	1	Methylene Chloride	3
Acetic Acid, 50%	3	Nitric Acid, 10%	1
Ammonia, 5%	1	Phosphoric Acid, 25%	1
Boric acid, 4%	2	Phosphoric Acid, 50%	1
Caustic Soda, 10%	1	Potash, 20%	1
Caustic Soda, 40%	1	Saline Solution, 30%	1
Caustic Soda, 50%	1	Soda Solution, 20%	2
Chlorine, 3%	2	Sugar Solution, 30%	1
Citric Acid, 10%	1	Sulphuric Acid, 10%	1
Formaldehyde, 37%	1	Sulphuric Acid, 25%	1
Formic Acid, 2%	1	Sulphuric Acid, 50%	2
Formic Acid, 5%	1	Sulphuric Acid, 60%	2
Formic Acid, 10%	2	Tannic Acid, 20%	1
Hydrochloric Acid, 45%	2	Xylene	2
Hydrogen Peroxide, 10%	1		
Lactic Acid, 45%	2		

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