



## ChemSkin™ Polyurea

### CHEMICAL RESISTANCE CHART

#### 21 Day Immersion Test ASTM D3912

Chemical Name	Results @ 25°C
Acetic Acid	R
Acetone	R
Ammonium Hydroxide (14%)	R
Brake Fluid	R
Brine-Saturated Water (310g/l)	R
Clorox (10%) Water	R
Diesel Fuel	R
Gasoline	R
Gasoline 5% MTBE	R
Gasoline 5% Methanol	R
Hydrochloric Acid (25%)	R
Hydrochloric Acid (10%)	R
Hydraulic Fluid	R
Isopropyl Alcohol	R
Lactic Acid	R
MEK	R
Methanol	R
Methylene Chloride	C
Mineral Spirits	R
Motor Oil	R
MTBE	C
Muriatic Acid (10%)	R
NaCl Water (10%)	R
Nitric Acid (20%)	RC
Phosphoric Acid (10%)	R
Phosphoric Acid (50%)	R
Potassium Hydroxide (10%)	R
Potassium Hydroxide (20%)	R. Dis
Skydrol	R
Sodium Hydroxide (25%)	R. Dis
Sodium Hypochlorite (10%)	R
Sodium Bicarbonate	R
Stearic Acid	R
Sugar Water	R
Sulfuric Acid (10%)	RC
Sulfuric Acid (30%)	NR
Toluene	R
Trisodium Phosphate	R
Vinegar Water (5%)	R
Water	R
Water (14 days @ 82°C)	R
Xylene	RC

72 Hour Spot Test Chemical Resistance Data	
APA	
Chemical	Rating
NHO <sub>3</sub> 50%	8
HCL 37.5%	9
NaOH 50%	8
H <sub>2</sub> SO <sub>4</sub> 50%	8
HI 57%	8
H <sub>3</sub> PO <sub>4</sub> 50%	8
Brake Fluid	10
Anti-Freeze	10
Motor Oil	10

#### Rating Guidelines

0-1	75-100% Film Dissolved
1-2	50-75% Film Dissolved
2-3	25-50% Film Dissolved
3-4	1-25% Film Dissolved
4-5	Film damage severe, cracking, pinholes
5-6	Film moderate to heavy damage, swollen, dulled
6-7	Film moderately damaged, haze, residue
7-8	Film with slight or no damage, slight haze, residue
8-9	Film in very good condition
10	Film unchanged, excellent condition

#### \*NOTES:

--All samples using 57% HI had purple iodine discoloration due to the nature of the acid in the air

--Samples were placed at room temperature for 72 hours after application of 1 ml of solvent on 16 mil film of product

#### CHART KEY

R – Recommended (little or no visible damage)

RC – Recommended Condition (swelling or discoloration)

C- Conditional (cracking – wash down within 1 hour)

NR – Not Recommended

Dis. – Discoloration