SPECIALIZED INDUSTRIAL MATERIALS

SPS Polyurea CHEMICAL RESISTANCE CHART

21 Day Immersion Test ASTM D3912

Chemical Name	Result @ 25 C
Acetic Acid	R
Acetone	R
Amminium 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
Hydrofluoric 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
Muratic 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%)	RC
Skydrol	R
Sodium Hydroxide (25%)	NR
Sodium Hypochlorite (10%)	R
Sodium Bicarbonate	R
Stearic Acid	R
Sugar water	R
Sulfuric Acid (10%)	R
Sulfuric Acid (30%)	RC
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

SPS Polyurea

CHEMICAL:	RATING
NHO_3 50%	9
HCL 37.5%	8
NaOH 50%	9
H_2SO_4 50%	9
HI 57%	9
H_3PO_4 50%	9
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 air

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

CHART KEY

R- Recommended (little or no visible damage)

RC- Recommended Conditional (swelling or discoloration)

C- Conditional (crackling- washdown witin 1 hour)

NR- Not Recommended

Dis- Discoloration

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