Chemical Resistance of Polyurethane Foams

Specific Chemical Resistance for Cut, Soil, and Flex LV PURe

The environments listed were selected because they represent different classes of chemicals which may be found in industrial waste water. The concentrations are more than likely severe compared with those that actually exist in the waste stream, but for comparison purposes, they represent an accelerated testing condition which allows for time reduction.

Time of exposure: 26 weeks

Environment	Appearance
Ethylene Glycol (100%)	No Change
Isopropanol (100%)	No Change
Heptane (Gasoline) (100%)	No Change
J P – 4 thru 8 fuel (100%)	No Change
Carbon Tetrachloride (100%)	Slight Darkening
Methyl Ethyl Ketone (100%)	Swelled 20-30%
Toluene (100%)	No Change
Hydrochloric Acid (2%)	Moderate Darkening & Slight Fragmentation
Acetic Acid (2%)	No Change
Sulfuric Acid (2%)	Moderate Darkening Intact
Sodium Hydroxide (1%)	Moderate Darkening & Slight Fragmentation

Environment	Cut/Soil	Flex LV
Sodium Hydroxide (pH 13)	No Influence	No Influence
Sodium Hydroxide (Saturated)	No Influence	Attacked
Sodium Carbonate	No Influence	No Influence
Chlorine Dioxide (pH 2)	No Influence	Attacked
Free Chlorine in Water (pH 2)	No Influence	Attacked
Phosphoric Acid (22%)	No Influence	Slight Absorption
Phosphoric Acid (30%)	No Influence	Slight Absorption/Darkening

Gasoline	No Influence	Slight Absorption
J P-4 thru 8 fuel (100%)	No Influence	No Influence
Nitric Acid	Attacked	Attacked
Hydrochloric Acid	No Influence	Slight Absorption

*Please contact DeNeef Construction Chemicals (US), Inc. before using our polyurethane grouts in corrosive environments. 1-800-792-0166

Typical Chemical Resistance of Polyurethane Foams

The table below represents the chemical resistance of typical polyurethane foams, including all DeNeef PURe Chemical Grouts. It is not intended as a specification.

Code: E= Excellent, G=Good resistance, F=Fair resistance, P=Poor resistance, S=Severe solvent action or chemical attack, not recommended for use.

Acetic Acid 2%	G	JP – 4 Fuel	E
Acetone	P	JP – 5 Fuel	E
Ammonium Hydroxide 10%	E	Kerosene	E
Ammonium Hydroxide Concentrate	G	Linseed Oil	E
Ammonium Sulfate 2%	E	Methyl Alcohol	G
Amyl Acetate	G	Methylene Chloride	F
Benzene	E	Methyl Ethyl Ketone	P
Benzyl Chloride	E	Mineral Spirits	E
Brine Saturated	E	Motor Oil	E
Brine 10%	E	Nitric Acid Concentrate	S
Butanol	E	Chlorobenzene	G
Butyl Acetate	G	Ortho-dichlorobenzene	E
Carbon Tetrachloride	E	Potassium Chlorate 5%	G
Diesel Oil	E	Potassium Hydroxide 1%	E
Diisobutylene	E	Sodium Hydroxide 10%	E
Diisobutyl Ketone	E	Sodium Hydroxide 25%	E
Ethyl Acetate	F	Sodium Hydroxide Concentrated	E

Ethyl Alcohol	G	Styrene	E
Ethylene Glycol 100%	G	Sulfuric Acid 10%	E
Formaldehyde	G	Sulfuric Acid Concentrate	S
Gasoline	E	Toluene	E

North America customer service: 1-877-4AD-MIX (1-877-423-6491)

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