

Chemical Compatibility Guide - Polyurethane



For: Ultra-Spill Berms, Ultra-Drain Seals, and Ultra-Drain Plugs

Chemical	Chemical Class	Swelling (0-2)	Visible Degradation (0-2)	Rating
Acetone	Ketones	2	0	NR
Acetonitrile	Nitriles	1	0	FAIR
Aluminum Salts	Aluminum Compounds	0	0	GOOD
Barium Salts	Barium Compounds	0	0	GOOD
Benzyl Alcohol	Hydroxyl Compounds	1	1	FAIR
Boric Acid	Inorganic Acids	0	0	GOOD
Butanol	Hydroxyl Compounds	0	0	GOOD
Calcium Chlorite	Calcium Compounds	0	0	GOOD
Carbon Disulfide	Sulfur Compounds	1	0	FAIR
Cupric Chloride	Copper Compounds	0	0	GOOD
Cyclohexanone	Ketones	1	2	NR
Dichloromethane	Halogen Compounds	2	2	NR
Diethylamine	Aliphatic Amines	1	1	FAIR
Dimethylformamide	Aliphatic Amides	2	2	NR
Ethyl Acetate	Carboxylic Esters	1	0	FAIR
Formaldehyde	Aliphatic Aldehydes	0	0	GOOD
Gasoline	Aromatic Hydrocarbons	0	0	GOOD
Gycol Ether	Ethers	0	0	GOOD
Hexane	Aliphatic Hydrocarbons	0	0	GOOD
Hydrochloric Acid (37%)	Inorganic Acids	0	2	NR
Hydrogen Peroxide (30%)	Peroxides	1	0	FAIR
Hydrofluoric Acid (48%)	Inorganic Acids	0	2	NR
Jet Fuel (JP-5)	Aliphatic Hydrocarbons	0	0	GOOD
Kerosene	Hydrocarbons	0	0	GOOD
Metahanol	Aliphatic Hydroxylic Compounds	0	0	GOOD
Methyl Ethyl	Ketone Aliphatic Ketones	2	0	NR
Mineral Oil	Aliphatic and Alicyclic Hydrocarbons	0	0	GOOD
Naphtha	Hydrocarbons	0	0	GOOD
Nitrobenzene	Nitro Compounds	0	2	NR
Phenol	Aromatic Hydroxylic Compounds	0	2	NR
Propylene Glycol	Hydroxylic Compounds	0	0	GOOD
Sodium Hydroxide (50%)	Inorganic Bases	0	0	GOOD
Sulfuric Acid (98%)	Inorganic Acids	0	2	NR
Sulfuric Acid (50%)	Inorganic Acids	0	2	NR
Tetrachloroethylene	Halogen Compounds (Vinyl Halides)	0	0	GOOD
Tetrahydrofuran	Alicyclic Ethers	2	2	NR
Toluene	Aromatic Hydrocarbons	1	0	FAIR
1,1,1-Trichloroethane	Aliphatic Halogen Compounds	1	0	FAIR
Trichloroethylene	Halogen Compounds (Vinyl Halides)	1	0	FAIR
Triethylamine	Aliphatic Amines	0	0	GOOD
Turpentine	Hydrocarbons	0	0	GOOD
Water	Misc.	0	0	GOOD

KEY:

Swelling:

Visually rated from 0-2;

0 = none

1 = slight

2 = significant

Degradation:

Visually rated from 0-2;

0 = none

1 = slight

2 = significant

Ratings:

NR (Not Recommended):

Significant degradation

or swelling

FAIR: Slight swelling

GOOD: No swelling

*Important User Notice For Both The Polyurethane and Polyethylene Chemical Compatibility Guides

The data contained herein is a compilation of existing published data from leading manufacturers of polyethylene and polyurethane and does not represent actual testing performed by UltraTech International, Inc.

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