

## Chemical Resistance of Polyurethanes

### CHEMICAL RESISTANCE CHART - PUBASED PRODUCTS

Floor Screeds & Toppings  
Maintenance Coatings  
Anti Corrosion Coatings

The table below can be used as an indication of PolyUrethane resistance to chemical compounds. Always check the chemical resistance with the Polyurethane manufacturer.

S.No	Chemical Product	Resistance
1	Acetic Acid, 30%	Fair
2	Acetone	Not Recommended
3	Ammonium Hydroxide	Excellent
4	Ammonium Nitrate	Not Recommended
5	Animal Fats	Excellent
6	Asphalt	Good
7	Astm oil no. 3 (below 158°C	Good
8	Astm ref. Fuel a	Excellent
9	Astm ref. Fuel b	Good
10	Astm ref. Fuel c	Fair
11	Astm ref. Fuel no. 1 (below 158of	Excellent
12	Barium Chloride	Excellent
13	Barium Sulfate	Excellent
14	Barium Sulfide	Excellent
15	Boric Acid	Excellent
16	Bunker Oil	Good
17	Butane	Excellent
18	Butter	Excellent
19	Calcium Chloride	Excellent
20	Calcium Hydroxide	Excellent
21	Calcium Nitrate	Excellent
22	Carbon Dioxide	Excellent
23	Carbon Monoxide	Excellent
24	Chlorine Wet, Dry, Or Gas	Good
25	Citric Acid	Excellent
26	Coconut Oil	Excellent
27	Cod Liver Oil	Excellent
28	Copper Chloride	Excellent
29	Copper Cyanide	Excellent
30	Copper Sulfate	Excellent
31	Corn Oil	Excellent
32	Cotton Seed Oil	Excellent
33	Cyclo Hexane	Good
34	Diesel Oil	Good
35	Diethyl Ether	Excellent
36	Dowtherm Oil	Good
37	Ethyl Alcohol	Good
38	Ethyl Cellulose	Good
39	Ethyl Chloride	Good
40	Ethyl Ether	Good

41	Ethylene Glycol	Good
42	Gasoline (With Alcohol)	Not Recommended
43	Glucose	Excellent
44	Glycerine	Excellent
45	Glycols	Good
46	Hydraulic Fluids (Synthetic)	Not Recommended
47	Hydraulic Oil (Petroleum Based)	Excellent
48	Hydrogen Gas	Excellent
49	Isooctane	Good
50	Kerosene	Good
51	Lard	Excellent
52	Linseed Oil	Good
53	Liquified Petroleum Gas	Excellent
54	Lye	Good
55	Magnesium Chloride	Excellent
56	Methane	Good
57	Methyl Alcohol	Not Recommended
58	Methylene Chloride	Not Recommended
59	Mineral Oil	Excellent
60	Natural Gas	Good
61	Nitric acid - conc.	Not Recommended
62	Nitric Acid - Diluted	Fair
63	Nitrogen	Excellent
64	Oleum Spirits	Good
65	Olive Oil	Excellent
66	Oxygen – 90 °C	Excellent
67	Peanut Oil	Excellent
68	Petroleum Above 121 °C	Not Recommended
69	Petroleum Below 710 °C	Excellent
70	Petroleum Below 121 °C	Good
71	Phosphoric Acid 20%	Excellent
72	Phosphoric Acid 45%	Excellent
73	Potassium Chloride	Excellent
74	Potassium Hydroxide	Excellent
75	Potassium Nitrate	Excellent
76	Potassium Sulfate	Excellent
77	Propane	Excellent
78	Radiation	Excellent
79	Sewage	Excellent
80	Silicate Esters	Excellent
81	Silicone Greases	Excellent
82	Silicone Oils	Excellent

83	Soap Solutions	Excellent
84	Sodium Chloride	Excellent
85	Sodium Hydroxide	Excellent
86	Sodium Peroxide	Excellent
87	Sodium Phosphate	Excellent
88	Sodium Sulfate	Excellent
89	Soybean Oil	Good
90	Stearic Acid	Excellent
91	Sulfuric acid - conc.	Not Recommended
92	Sulfuric Acid - Diluted	Good
93	Tannic Acid	Excellent
94	Toluene	Fair
95	Transmission Fluid Type A	Excellent
96	Tung Oil	Good
97	Water, Fresh	Excellent
98	Water, Salt	Excellent
99	Whiskey	Excellent
100	Wines	Excellent

#### CHEMICAL RESISTANCE CHART - EPOXY BASED PRODUCTS

Floor Screeds & Toppings  
Maintenance Coatings  
Anti Corrosion Coatings

The table below can be used as an indication of epoxy resistance to chemical compounds. Always check the chemical resistance with the epoxy manufacturer.

S.No	Chemical Product	Resistance
1	Acetic Acid (20%)	Excellent
2	Acetone	Not Recommended
3	Acetylene	Excellent
4	Alcohol - Ethyl	Excellent
5	Alcohol - Isopropyl	Excellent
6	Alcohol - Methyl	Good
7	Aluminum Chloride	Excellent
8	Aluminum Fluoride	Good
9	Aluminum Hydroxide	Good
10	Aluminum Sulfate	Excellent
11	Amines	Excellent
12	Ammonia - Liquid	Excellent
13	Ammonia 10%	Excellent
14	Ammonium Carbonate	Excellent
15	Ammonium Chloride	Excellent
16	Ammonium Hydroxide	Excellent
17	Ammonium Nitrate	Excellent
18	Ammonium Phosphate	Excellent
19	Ammonium Sulfate	Excellent
20	Amyl acetate	Excellent
21	Aniline	Fair
22	Barium Carbonate	Excellent
23	Barium Chloride	Excellent
24	Barium Hydroxide	Excellent

25	Barium Sulfate	Fair
26	Barium Sulfide	Good
27	Beer	Excellent
28	Benzol	Excellent
29	Borax	Excellent
30	Boric acid	Excellent
31	Bromine	Not Recommended
32	Butadiene gas	Excellent
33	Butane gas	Excellent
34	Butyl acetate	Good
35	Butaric Acid	Fair
36	Calcium Bisulfite	Excellent
37	Calcium Carbonate	Excellent
38	Calcium Chloride	Excellent
39	Calcium Hydroxide	Excellent
40	Calcium Hypochlorite	Excellent
41	Calcium Sulfate	Excellent
42	Carbon dioxide gas	Excellent
43	Carbon Tetrachloride	Excellent
44	Carbonic Acid	Good
45	Citric Acid	Excellent
46	Copper Chloride	Excellent
47	Copper Nitrate	Excellent
48	Dichloroethane	Good
49	Diesel Fuel	Excellent
50	Ethyl acetate	Fair
51	Ethyl chloride	Excellent
52	Ethylene glycol	Fair
53	Fatty Acids	Excellent
54	Ferric Chloride	Excellent
55	Ferric Sulfate	Excellent
56	Ferrous Chloride	Excellent
57	Ferrous Sulfate	Excellent
58	Fluorine gas	Not Recommended
59	Fluosilicic acid	Fair
60	Formaldehyde, 40%	Excellent
61	Formic Acid	Fair
62	Freon	Excellent
63	Gasoline	Excellent
64	Glucose	Good
65	Glycerine	Excellent
66	Heptane	Excellent
67	Hexane	Good
68	Hydraulic Fluid	Excellent
69	Hydrobromic Acid, 100%	Not Recommended
70	Hydrochloric acid, 20%	Good
71	Hydrocyanic Acid	Excellent

72	Hydrofluoric Acid, 75%	Good
73	Hydrogen Peroxide, 10%	Fair
74	Hydrogen Sulfide	Excellent
75	Jet Fuel	Excellent
76	Kerosene	Excellent
77	Lactic Acid	Good
78	Lead acetate	Excellent
79	Magnesium Carbonate	Excellent
80	Magnesium Chloride	Excellent
81	Magnesium Hydroxide	Excellent
82	Magnesium Nitrate	Excellent
83	Magnesium Sulfate	Excellent
84	Maleic Acid	Excellent
85	Mercury	Excellent
86	Methyl Ethyl Ketone	Fair
87	Naphtha	Excellent
88	Naphthalene	Excellent
89	Nickel Chloride	Excellent
90	Nickel Sulfate	Excellent
91	Nitric Acid	Not Recommended
92	Oil - Castor	Excellent
93	Oleic acid	Excellent
94	Oxalic Acid	Excellent
95	Phenol	Good
96	Phosphoric Acid	Good
97	Picric Acid	Excellent
98	Potassium Bicarbonate	Excellent
99	Potassium Bromide	Excellent
100	Potassium Carbonate	Excellent
101	Potassium Chloride	Excellent
102	Potassium Dichromate	Fair
103	Potassium Hydroxide	Excellent
104	Potassium Nitrate	Excellent
105	Potassium Sulfate	Excellent
106	Propane, liquid	Excellent
107	Silver Nitrate	Excellent
108	Soaps	Excellent
109	Sodium Acetate	Excellent
110	Sodium Bicarbonate	Excellent
111	Sodium Bisulfate	Excellent
112	Sodium Carbonate	Fair
113	Sodium Chlorate	Excellent
114	Sodium Chloride	Excellent
115	Sodium Cyanide	Excellent
116	Sodium Fluoride	Excellent
117	Sodium Hydroxide, 50%	Good
118	Sodium Hypochlorite, 100%	Not Recommended

119	Sodium Nitrate	Excellent
120	Sodium Silicate	Excellent
121	Sodium Sulfate	Excellent
122	Sodium Sulfite	Excellent
123	Sodium Thiosulfate	Excellent
124	Stannic Chloride	Excellent
125	Stearic Acid	Good
126	Sulfuric Acid, 75-100%	Fair
127	Sulfur Dioxide	Excellent
128	Tannic Acid	Excellent
129	Tartaric Acid	Excellent
130	Toluene	Good
131	Turpentine	Good
132	Urine	Excellent
133	Vinegar	Excellent
134	Water - Distilled	Excellent
135	Water - Fresh	Excellent
136	Water - Sea, Salt	Excellent
137	Xylene	Excellent
138	Zinc Chloride	Excellent