



Chemical resistance from A to Z

Survey table for chemical resistance of unsaturated Polyesters (UP)

KEMPEROL V 210 Waterproofing
KEMPEROL BR Waterproofing

one-component polyurethanes (1K-PU)

KEMPEROL 1K-PUR Waterproofing
KEMPERDUR Deko

two-component polyurethanes (2K-PU)

KEMPEROL 2K-PUR Waterproofing
KEMPERDUR Deko 2K
KEMPERDUR HB High Build
KEMPERDUR FC Floor Coating

polymethyl methacrylates (PMMA)

KEMPEROL AC Waterproofing
KEMPERDUR AC Finish

epoxy resins (EP)

KEMPERTEC EP-/ EP5-Primer

06/2008

Substance	<i>solid</i>	<i>Solution</i>	<i>liquid</i>	UP	1K-PU	2K-PU	PMMA	EP
A Accumulator Acid		X		O	O	O	+	+
Acetic Acid < 10 %		X		O	O	O	+	+
Acetic Acid conc.			X	-	-	-	-	-
Acetone			X	-	-	-	-	-
Aluminumchloride Solution 30%		X		+	+	+	+	+
Ammonia		X		-	-	-	+	+
Ammonium Carbonate	X	X		+	+	+	+	+
Ammonium Chloride	X	X		+	+	+	+	+
Ammonium Perchlorate	X	X		O	O	O	+	+
Ammonium Phosphate	X	X		+	+	+	+	+
Ammonium Sulphate	X	X		+	+	+	+	+
Aqua Regia		X		-	-	-	-	-
B Barium Chloride	X	X		+	+	+	+	+
Barium Hydroxide	X			O	O	O	+	+
Barium Hydroxide solution		X		-	-	-	+	+
Barium Nitrate	X	X		+	+	+	+	+
Beer			X	+	+	+	+	+
Bleach			X	-	-	-	-	O
Borax	X	X		+	+	+	+	+
Boric Acid		X		+	+	+	+	+
Butanal			X	-	-	-	-	-
Butanol			X	O	O	O	+	+
Butylacetate			X	-	-	-	-	+
Butyric Acid			X	-	-	-	+	O
C Calcium Chloride	X	X		+	+	+	+	+
Calcium Formiate	X	X		+	+	+	+	+
Calcium Hydroxide	X			+	+	+	+	+
Calcium Hydroxide moist		X		-	-	-	+	+
Calcium Hydroxide Solution		X		-	-	-	+	+
Calcium Nitrate	X	X		+	+	+	+	+
Carbon Tetra Chloride			X	-	-	-	-	-
Castor Oil			X	O	O	O	O	+
Caustic potash solution 10 % (lye)		X		-	-	-	+	+
Caustic potash solution 10-50 % (lye)		X		-	-	-	O	+
Caustic potash solution conc. (lye)		X		-	-	-	-	+

+ resistant

o resistant with restrictions

- not resistant

- no alteration of the KEMPEROL System after 60 days exposure at 68°F (20°C) to the listed material

- no alteration of the KEMPEROL System after 3 days exposure at 68°F (20°C) to the listed material
(i.e. Waterproofing system is stable when only small amounts are present and are removed immediately)

- severe alteration of the KEMPEROL System when exposed to the listed material

Note: Specific testing is required for unlisted chemicals, mixtures, concentrations and temperatures

Substance	solid	Solution	liquid	UP	1K-PU	2K-PU	PMMA	EP
Caustic Soda 10 % (lye)		X		-	-	-	+	+
Caustic Soda 10-50 % (lye)		X		-	-	-	0	+
Caustic Soda conc. (lye)		X		-	-	-	-	+
Chloracetic Acid	X	X		-	-	-	-	-
Chlorinated Water		X		0	0	0	0	0
Chlorinated Water (Swimming pools)		X		+	+	+	+	+
Chloroform			X	-	-	-	-	+
Chromic Acid 10%		X		-	-	-	-	-
Citric Acid	X	X		0	0	0	+	+
Cobalt Chloride	X	X		+	+	+	+	+
Cobalt Nitrate	X	X		+	+	+	+	+
Copper Chloride	X	X		+	+	+	+	+
Copper Sulphate	X	X		+	+	+	+	+
Cyclohexanol			X	0	0	0	+	+
Cyclohexanon			X	0	0	0	-	0
D Dibutyl Phthalate	X			0	0	0	0	+
Diocetyl Phthalate	X			0	0	0	0	+
E Ethanol < 50 %			X	0	0	0	+	0
Ethanol conc.			X	-	-	-	+	0
Ether			X	0	0	-	-	-
Ethylacetate (Aceticacidethylester)			X	-	-	-	-	0
Ethylglycol Acetat			X	-	-	-	-	0
F Ferrum Chloride	X	X		+	+	+	+	+
Ferrum Chloride Solution 50%		X		+	+	+	+	+
Ferrum Sulphate		X		+	+	+	+	+
Ferrum Sulphate	X	X		+	+	+	+	+
Fertilizer	X	X		0	0	0	0	0
Formaldehyde 30-40% (Formalin)			X	0	0	0	-	+
Formic Acid < 30 %		X		0	0	0	0	0
Formic Acid 31-85 %		X		-	-	-	-	-
Fuel Oil EL			X	+	+	+	+	+
Fuel, Petrol			X	0	0	0	0	+
G Glucose	X	X		+	+	+	+	+
Glycerin			X	+	+	+	+	+
Glycol			X	0	0	0	+	0

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H Hydrobromic Acid		X		O	O	O	+	O
Hydrochloric Acid 20 %		X		-	-	-	O	+
Hydrochloric Acid conc.		X		-	-	-	O	O
Hydrofluoric Acid			X	-	-	-	-	-
I Isopropyl Alcohol			X	O	O	O	+	O
L Lactic Acid 10%		X		+	+	+	+	+
Lactic Acid conc.		X		O	O	O	O	+
Lead Acetate	X	X		+	+	+	+	+
Lime Chloride	X			O	O	O	O	O
Lubricating Grease	X			+	+	+	+	+
Lubricating Oil			X	+	O	+	+	+
M Magnesium Chloride	X	X		+	+	+	+	+
Magnesium Nitrat	X	X		+	+	+	+	+
Magnesium Sulphate	X	X		+	+	+	+	+
Maleic Acid	X		X	+	+	+	+	+
Manganese Sulphate	X	X		+	+	+	+	+
Margarine	X		X	+	+	+	+	+
Mercury			X	+	+	+	+	+
Mercury Chloride	X	X		+	+	+	+	+
Methanol			X	-	-	-	+	-
Methyl Acetate			X	-	-	-	-	-
Methyl Chloride			X	-	-	-	-	-
Methylamine			X	-	-	-	-	-
Methylethylketone			X	-	-	-	-	-
Methylisobutylketone			X	-	-	-	-	-
Milk			X	+	+	+	+	+
Mineral Oil			X	+	+	+	+	+
Molasses (Beet)			X	+	+	+	+	+
N Nickel Chloride	X	X		+	+	+	+	+
Nickel Sulphate	X	X		+	+	+	+	+
O Nitric Acid (Azotic Acid)		X		-	-	-	-	O
Oil for cooking			X	+	+	+	+	+
Oil for Engines			X	+	+	+	+	+
Oil from Flax (Linen)			X	+	+	+	+	+
Oxalic Acid	X	X	X	O	O	O	O	+

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Ozone				+	+	+	+	+
P Paraffin			X	+	+	+	+	+
Perchloric Acid < 10 %		X		O	O	O	+	O
Perchloric Acid 70 %		X		-	-	-	-	+
Petroleum			X	O	O	O	O	+
Phenol	X		X	-	-	-	-	-
Phosphoric Acid 10 %		X		O	O	O	+	+
Phosphoric Acid 50 %		X		-	-	-	O	O
Phosphoric Acid conc.		X		-	-	-	-	-
Phthalic Acid	X			+	+	+	+	+
Potassium Bromate	X	X		O	O	O	+	+
Potassium Carbonate	X	X		+	+	+	+	+
Potassium Chlorate	X	X		O	O	O	+	+
Potassium Chloride	X	X		+	+	+	+	+
Potassium Chromat	X	X		O	O	O	+	+
Potassium Cyanide	X	X		+	+	+	+	+
Potassium Dichromat	X	X		O	O	O	+	+
Potassium Fluoride	X	X		+	+	+	+	+
Potassium Iodid	X	X		+	+	+	+	+
Potassium Nitrat	X	X		+	+	+	+	+
Potassium Permangante	X	X		O	O	O	+	+
Potassium Phosphate	X	X		+	+	+	+	+
Potassium Sulphate	X	X		+	+	+	+	+
Propanol			X	O	O	O	+	O
Propionic Acid 10 %		X		O	O	O	+	O
Propionic Acid conc.		X		-	-	-	O	-
S Salicylic Acid	X	X		O	O	+	+	+
Salt	X	X		+	+	+	+	+
Salt moist		X		+	+	+	+	+
Silver Nitrate	X	X		+	+	+	+	+
Sodium Acetat	X	X		+	+	+	+	+
Sodium Bromat	X	X		O	O	O	O	O
Sodium Bromid	X	X		+	+	+	+	+
Sodium Carbonat	X	X		+	+	+	+	+
Sodium Chlorat	X	X		O	O	O	O	O

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Sodium Chlorid	X	X		+	+	+	+	+
Sodium Cyanide	X	X		+	+	+	+	+
Sodium Fluoride	X	X		+	+	+	+	+
Sodium Hypochlorite	X	X		+	+	+	+	+
Sodium HypoChlorite Solution			X	O	O	O	O	O
Sodium Nitrate	X	X		+	+	+	+	+
Sodium Perborate	X	X		O	O	O	O	O
Sodium Perchlorat	X	X		O	O	O	O	O
Sodium Peroxide	X	X		-	-	-	-	-
Sodium Phosphate	X	X		+	+	+	+	+
Sodium Sulfite	X	X		+	+	+	+	+
Sodium Sulphate	X	X		+	+	+	+	+
Sodium-Potassium Silicate		X		O	O	O	O	+
Stearic Acid	X	X		+	+	+	+	+
Styrene			X	-	-	-	-	O
Succinic Acid	X	X		+	+	+	+	+
Sugar	X	X		+	+	+	+	+
Sugar moist		X		+	+	+	+	+
Sulfuric Acid 10 %		X		+	+	+	+	+
Sulfuric Acid 20 %		X		+	+	+	+	+
Sulfuric Acid 40 %		X		O	O	O	+	O
Sulfuric Acid 60 %		X		-	-	-	+	O
Sulfuric Acid conc.		X		-	-	-	-	-
Sulfuric Acid conc.		X		-	-	-	-	-
T Table Salt	X	X		+	+	+	+	+
Table Salt Solution		X		+	+	+	+	+
Tannic Acid			X	+	+	+	+	+
Tartaric Acid	X	X		+	+	+	+	+
Tetra Hydro Furane (THF)			X	-	-	-	-	-
Tin Chloride	X	X		+	+	+	+	+
Toluene			X	-	-	-	-	-
Tri Sodium Phosphate	X	X		O	O	O	O	O
Trichlorethan			X	-	-	-	-	-
Trichlorethylene			X	-	-	-	-	-
Triethanolamine			X	-	-	-	-	-

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Triethylamine		X		-	-	-	-	-
Turpentine			X	O	O	O	O	O
U Urea	X	X		+	+	+	+	+
Urine			X	O	O	O	+	+
W Washing Powder 5%		X		+	+	+	+	+
Wasser (destillated)			X	+	+	+	+	+
Water (Sea-, Mineral-, Potable)			X	+	+	+	+	+
Wine		X		+	+	+	+	+
X Xylol			X	-	-	-	-	O
Z Zinc Chloride	X	X		+	+	+	+	+
Zinc Nitrate	X	X		+	+	+	+	+
Zinc Sulphate	X	X		+	+	+	+	+

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