

Chemical Resistance for Kemper System Products

Survey table for chemical resistance of:

unsaturated polyesters (UP)

KEMPEROL BRM/V210M Waterproofing

two-component polyurethanes (2K-PUR)

KEMPEROL 2K-PUR Waterproofing

KEMPEROL 2K FR

polymethyl methacrylates (PMMA)

KEMPEROL AC Speed FR

KEMPERDUR AC Finish

epoxy resins (EP)

KEMPERTEC EP/EP5-Primer

KEMPERDUR EP-FR Finish

Technical Data

Chemical Resistance for Kemper System Products

Product	solid	solution	liquid	UP	2K-PUR	PMMA	EP
A Accumulator Acid		X		O	O	+	+
Acetic Acid < 10 %		X		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	+	+
Ammonium Phosphate	X	X		+	+	+	+
Ammonium Sulphate	X	X		+	+	+	+
Aqua Regia		X		-	-	-	-
B Barium Chloride	X	X		+	+	+	+
Barium Hydroxide	X			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	+	+
Butylacetate			X	-	-	-	+
Butyric Acid	X		X	-	-	+	O
C Calcium Chloride	X	X		+	+	+	+
Calcium Formiate	X	X		+	+	+	+
Calcium Hydroxide				+	+	+	+
Calcium Hydroxide moist		X		-	-	+	+
Calcium Hydroxide Solution		X		-	-	+	+
Calcium Nitrate	X	X		+	+	+	+
Carbon Tetra Chloride			X	-	-	-	-
Castor Oil			X	O	O	O	+
Caustic potash solution 10 % (lye)		X		-	-	+	+
Caustic potash solution 10-50 % (lye)		X		-	-	O	+

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(i.e. Waterproofing system is stable when only small amounts are present and are removed immediately)

- severe affects to the Kemper System when exposed to the listed material

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

Chemical Resistance for Kemperol® Products

Product	solid	solution	liquid	UP	2K-PUR	PMMA	EP
Caustic potash solution conc. (lye)		x		-	-	-	-
Caustic Soda 10 % (lye)		x		-	-	+	+
Caustic Soda 10-50 % (lye)		x		-	-	o	+
Caustic Soda conc. (lye)		x		-	-	-	+
Chloracetic Acid	x	x		-	-	-	-
Chlorinated Water		x		o	o	o	o
Chlorinated Water (Swimming pools)		x		+	+	+	+
Chloroform			x	-	-	-	+
Chromic Acid 10%		x		-	-	-	-
Citric Acid	x	x		o	o	+	+
Cobalt Chloride	x	x		+	+	+	+
Cobalt Nitrate	x	x		+	+	+	+
Copper Chloride	x	x		+	+	+	+
Copper Sulphate	x	x		+	+	+	+
Cyclohexanol			x	o	o	+	+
Cyclohexanon			x	o	o	-	o
D Dibutyl Phthalate	x			o	o	o	+
Diocetyl Phthalate	x			o	o	o	+
E Ethanol < 50 %			x	o	o	+	o
Ethanol conc.			x	-	-	+	o
Ether			x	o	-	-	-
Ethylacetate (Aceticacidethylester)			x	-	-	-	o
Ethylglycol Acetat			x	-	-	-	o
F Ferrum Chloride	x	x		+	+	+	+
Ferrum Chloride Solution 50%		x		+	+	+	+
Ferrum Sulphate		x		+	+	+	+
Ferrum Sulphate	x	x		+	+	+	+
Fertilizer	x	x		o	o	o	o
Formaldehyde 30-40% (Formalin)			x	o	o	-	+
Formic Acid < 30 %		x		o	o	o	o
Formic Acid 31-85 %		x		-	-	-	-
Fuel Oil EL			x	+	+	+	+
Fuel, Petrol			x	o	o	o	+
G Glucose	x	x		+	+	+	+
Glycerin			x	+	+	+	+
Glycol			x	o	o	+	o
H Hydrobromic Acid		x		o	o	+	o
Hydrochloric Acid 20 %		x		-	-	o	+
Hydrochloric Acid conc.		x		-	-	o	o
Hydrofluoric Acid			x	-	-	-	-
I Isopropyl Alcohol			x	o	o	+	o
L Lactic Acid 10%		x		+	+	+	+

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Lactic Acid conc.		x		o	o	o	+
Lead Acetate	x	x		+	+	+	+
Lime Chloride	x			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		+	+	+	+
Nitric Acid (Azotic Acid)		x		-	-	-	o
O Oil for cooking			x	+	+	+	+
Oil for Engines			x	+	+	+	+
Oil from Flax (Linen)			x	+	+	+	+
Oxalic Acid	x	x	x	o	o	o	+
Ozone				+	+	+	+
P Paraffin			x	+	+	+	+
Perchloric Acid < 10 %		x		o	o	+	o
Perchloric Acid 70 %		x		-	-	-	+
Petroleum			x	o	o	o	+
Phenol	x		x	-	-	-	-
Phosphoric Acid 10 %		x		o	o	+	+
Phosphoric Acid 50 %		x		-	-	o	o
Phosphoric Acid conc.		x		-	-	-	-
Phthalic Acid	x			+	+	+	+
Potassium Bromate	x	x		o	o	+	+
Potassium Carbonate	x	x		+	+	+	+
Potassium Chlorate	x	x		o	o	+	+

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Potassium Chloride	X	X		+	+	+	+
Potassium Chromat	X	X		O	O	+	+
Potassium Cyanide	X	X		+	+	+	+
Potassium Dichromat	X	X		O	O	+	+
Potassium Fluoride	X	X		+	+	+	+
Potassium Iodid	X	X		+	+	+	+
Potassium Nitrat	X	X		+	+	+	+
Potassium Permangante	X	X		O	O	+	+
Potassium Phosphate	X	X		+	+	+	+
Potassium Sulphate	X	X		+	+	+	+
Propanol			X	O	O	+	O
Propionic Acid 10 %		X		O	O	+	O
Propionic Acid conc.		X		-	-	O	-
S Salicylic Acid	X	X		O	+	+	+
Salt	X	X		+	+	+	+
Salt moist		X		+	+	+	+
Silver Nitrate	X	X		+	+	+	+
Sodium Acetat	X	X		+	+	+	+
Sodium Bromat	X	X		O	O	O	O
Sodium Bromid	X	X		+	+	+	+
Sodium Carbonat	X	X		+	+	+	+
Sodium Chlorat	X	X		O	O	O	O
Sodium Chlorid	X	X		+	+	+	+
Sodium Cyanide	X	X		+	+	+	+
Sodium Fluoride	X	X		+	+	+	+
Sodium Hypochlorite	X	X		+	+	+	+
Sodium HypoChlorite Solution			X	O	O	O	O
Sodium Nitrate	X	X		+	+	+	+
Sodium Perborate	X	X		O	O	O	O
Sodium Perchlorat	X	X		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	+
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		+	+	+	+

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Product	<i>solid</i>	<i>solution</i>	<i>liquid</i>	UP	2K-PUR	PMMA	EP
Sulfuric Acid 40 %		X		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
Trichlorethan			X	-	-	-	-
Trichlorethylene			X	-	-	-	-
Triethanolamine			X	-	-	-	-
Triethylamine		X		-	-	-	-
Turpentine			X	O	O	O	O
U Urea	X	X		+	+	+	+
Urine			X	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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