

POLYESTER CONCRETE CHEMICAL RESISTANCE LIST

This list is only an aid. The composition of a product is subject to changes and particular circumstances. This information cannot give cause to liability or guarantee from the supplier.

Resistant= x / Not resistant= -

Product	Conc.	Resist.	Temp.	Product	Conc.	Resist.	Temp.	Product	Conc.	Resist.	Temp.
acetic acid	50	-	-	epichlore hydrine	-	-	-	nitric acid	10	x	25
acetone	10	-	-	epoxy resins (without solvent)	-	x	30	nitric acid	40	-	-
acidity of wine	all	x	30	epoxyharsen (zonder oplosmiddel)	-	x	30	nitrohydrochloric acid	-	-	-
active chlorine	12-15	-	-	ethanol	until 20	x	30	octane	-	x	30
adipic acid	-	x	30	ethanol aq. up to 20% iq.	-	x	30	oils, animal + vegetable	-	x	30
alcohol (ethanol, 96%)	-	x	30	ethanol aq. up to 50% iq.	-	x	30	oleic acid	-	x	50
alcoholic drinks	-	x	30	ethanol comm.	-	x	30	oleic acid	all	x	30
alkylbenzene sulphonate	-	-	-	ethanol, denaturated	-	-	-	oxalaldehyd 40%	-	x	30
alum aq.	-	x	30	+ 2% tannol	96	-	-	oxalic acid	all	x	30
aluminium salts (n.n.s.) aq.	-	x	30	ether	-	-	-	palmitic acid	-	x	30
ammonia watery solution	25	-	-	ethylbenzene	-	-	-	paraffin	-	x	30
ammonium bromate	-	x	30	ethylene diamine	-	-	-	paraffin oil	-	x	50
ammonium bromide w.sol.	-	x	30	ethylhexanol	-	-	-	P3 cold detergent	20	x	30
ammonium chlorate w.sol.	-	x	30	fats and fatty acids	-	x	30	perchloroethylene	-	x	30
ammonium chloride w.sol.	-	x	30	ferrous trichloride	-	x	30	perchloric acid	20	x	30
ammonium nitrate w.sol.	-	x	30	fixing baths (photo)	-	x	30	petrol	-	x	30
ammonium phosphate w.sol.	-	x	30	formaldehyde	30 w.sol.	-	-	petroleum	-	x	30
ammonium sulphate w.sol.	-	x	30	formic acid	10	x	30	petroleum oil	-	x	30
amyl acetate	100	-	-	frigen 119	-	x	30	petrolic ether	-	x	30
apple juice	-	x	30	fruit acids	-	x	30	phenol	-	-	-
aqua dest.	-	x	30	fruit juices	-	x	30	phosphates, inorganic w.sol.	-	x	30
arsenic acid	-	x	40	glucose w.sol.	-	x	30	phosphoric acid	10,85	x	30
barium salt w.sol.	-	x	30	glycerol	-	x	30	phthalic acid	-	-	-
battery acid	32	x	30	glycol	-	x	40	phthalic ester	-	x	30
beer	-	x	30	hard coco oil	-	x	30	pickle	-	x	30
benzene	-	-	-	heavy petrol	-	x	30	pitric acid	-	x	30
benzene acid	-	x	30	heptane	-	-	-	pot ash solution	10,20,50	-	-
benzene aldehyde	-	-	-	herring pickle	-	x	30	potassium bichromate aq.	10	-	-
benzoyl chloride	-	x	30	hexane	-	-	-	potassium cyanide	-	x	40
benzoyl peroxide	-	-	-	humic acid	-	x	30	potassium permanganate w.sol.	10	-	-
benzyl alcohol	-	x	30	humid chlorine gas	-	-	-	potassium salts	-	x	30
benzyl chloride	-	-	-	humus	-	x	30	propanol	-	-	-
borax	-	x	30	hydrobromic acid	-	x	30	propyl alcohol	-	x	30
boric acid	all	x	30	hydrochloric acid	-	x	30	propylene glycol	-	x	30
brine	-	x	30	hydrochloric acid	conc.	x	30	salicylaldehyde	-	x	30
brine (NaCl)	-	x	30	hydrocyanic acid	-	x	30	salicylic acid	-	x	30
budandiol	-	-	-	hydrofluoric acid	40	-	-	salicylic acid aq.	-	x	40
butanol	100	-	-	hydrofluosilicic acid	34	x	30	saturated chlorine gas	-	-	-
butyl acetate	-	-	-	hydrogen chloride (anhydrous)	-	x	30	sea water	-	x	30
butyl glycol	-	-	-	hydrogensulphide	-	x	30	silicone grease	-	x	30
butyric acid	100	x	30	hydrozine w.sol.	50	-	-	silicone oil	-	x	40
calcium chloride aq.	-	x	40	iodine, solid	-	x	30	silver nitrate aq.	-	x	30
calcium formate aq.	-	x	30	isopropiyl alcohol	100	-	-	sodium carbonate aq.	-	-	-
calcium hydroxide aq.	-	x	30	joiner glue	-	x	30	sodium hydroxide	10,20,40	-	-
calcium salt w.sol.	-	x	30	kerosene	-	x	30	sodium hypochlorite	-	-	-
capryl acid	-	-	-	lactic acid w.sol.	80	x	30	with 15% active chlore	-	-	-
caprylic acid	-	x	30	lake water	-	x	30	sodium salts	-	x	30
carbon tetrachloride	100	-	-	lemonade	-	x	30	sorbite	-	x	30
chloroform	-	-	-	lime, aqueous slurry	-	x	30	starch w.sol.	-	x	30
chromate bath	-	-	30	linseed oil	-	x	30	stearic acid	-	x	30
chrome sulphate aq.	-	x	30	linseed oil fatty acid	100	x	30	styrol	-	-	-
chromic acid	6,12,36	x	30	lithium chloride aq.	-	x	50	succinic acid w.sol.	-	x	30
chromic acid aq. 10% iq.	-	-	-	lubricating oil	-	x	30	sugar beet oil	-	x	30
chromic acid aq. 40% iq.	-	x	30	lubrication oil, grease	-	x	30	sugar w.sol.	-	x	30
cinnamon aldehyde	-	x	30	lye (caustic soda)	-	-	-	sulphamic acid	-	x	30
citric acid	all	x	30	lysol	-	x	30	sulphite liquor	-	x	40
cobalt acid aq. (n.n.s.)	-	x	40	magnesium salts	-	x	30	sulphur dioxide gas conc.	-	x	30
cobalt salts	-	x	30	maleic acid	-	x	30	sulphuric acid	10,30,70	x	30
cod-liver oil	-	x	30	malic acid	100	x	30	table glue	-	x	30
copper salts	-	x	30	manganese salts	-	x	30	tannic acid	-	x	40
crude oil	-	x	30	margarine	-	x	30	tetrachlore ethylene	100	x	25
cyclohexane	100	-	-	melamine resin aq.	-	x	30	tetrahydrofurane	-	-	-
cyclohexanone	100	-	-	mercury	-	x	50	thermal oil	-	x	30
dedocyl-ether sulphate aq.	-	x	30	mercury salts w.sol.	-	x	30	thioglycolic acid	100	-	-
detergent, commercial	-	x	30	methanol	-	-	-	tin salts	-	x	30
di-ethanolame	-	x	30	methyl acrylic acid	-	-	-	toluene	-	-	-
di-ethylamus	-	-	-	methyl ester	-	-	-	trichloroacetic acid	-	x	30
di-isobutane	-	x	30	methyl amine	-	-	-	trichloroethane	-	-	-
dibutyl phthalate	-	x	30	methyl bethylene keton	-	-	-	trichloroethylene	-	-	-
dichloroacetic acid	20	x	30	methylated spirit	-	x	30	turpentine	-	x	30
diesel fuel	-	x	30	methylene chloride	-	-	-	urea w.sol.	-	x	30
diesel oil	-	x	30	milk	-	x	30	water (sea, drinking, mineral)	-	x	30
diethtyl phthalate	100	-	-	mineral oil	-	x	30	water: deionisated	-	x	30
diethylene glycol	-	x	50	mineral water	-	x	30	water: demineralised	-	x	30
dimethylaniline	100	-	-	molasses	-	x	30	water: distilled	-	x	30
dodecylbenzene sulphonic acid	-	x	30	monochlore acetic acid	5	x	30	wine	-	x	30
drinking water	-	x	30	nickel salts	-	x	30	xylene	-	-	-
engine oil	-	x	30					zinc salts w.sol.	-	x	30

RESISTANCE OF POLYPROPYLENE TO CHEMICALS

Polypropylene is 100% recyclable, durable, and highly resistant to shocks. It is highly resistant to dilute acids and alkaline solutions and is not affected by road salt, alcohol, fats, mineral oils, fuel.

The content of this table is given as an indication. It shows the average resistance of polypropylene compared to these chemicals at temperature of 20°C and at the concentrations indicated. This table cannot substitute a practical test in real conditions (Imcoma can provide samples of materials). Also, bear in mind the chemical resistance of the chosen gratings.

Product	Concentration ¹⁾ max. %	Temp. ²⁾ max. °C	Resistant	Product	Concentration ¹⁾ max. %	Temp. ²⁾ max. °C	Resistant
Acetate butyl	100		L	Carbon disulfide			NS
Lead acetate	100		S	Water	(à 100°C)		S
Sodium acetate	100		S	Water chlorine saturé			NS
Ethyl acetate	100		S	Regia water			S
Acetone	100		S	Gasoline	100		L
Acetic acid	80		S	Turpentine	100		NS
Glacial acetic acid	100		L	Ethyl alcohol	100		S
Hydro bromic acid	20/100		S/L	Ethan amine	95		NS
Butyric acid	100		L	Ethyl ether	100		NS
Carbonic acid			S	Ethylene glycol	100		S
Hydrochloric acid	100		S	Formaldehyde	40		S
Chromic acid	5		NS	Dimethyl form amide	100		NS
Citric acid	100		S	Glycerin	100		S
Hydrofluoric acid	20/100		S/L	Castor oil	100		S
Formic acid	100		S	Hydrazine	50		L
Lactic acid	100		S	Aromatic hydrocarbons			NS
Maleic acid	100		S	Calcium hydroxide	100	48°C	S
Nitric acid	50/100		S/NS	Potassium hydroxide	10		S
Oleic acid	100		S	Sodium hydroxide	80		S
Oxalic acid	100		L	Sodium hypochlorite	100		L
Per chloric acid	10		S	Fruit juice			S
Phosphoric acid	40		S	The fatty acids			S
Stearic acid	100	48°C	S	Bleaching liquors	100		S
Sulfuric acid	75		S	Liqueurs plating	100		S
Sulfuric acid	>75		NS	Tanning liquors	100		S
Sulfuric acid <48 °C	10		S	Fuel	100	48°C	S
Tannic acid	100		S	Methyl ethyl ketone	100		S
Tricolored acetic acid			S	Ammonium nitrate	100		S
Benzyl alcohol	100		L	Calcium nitrate	100		S
Acetic anhydride	100		L	Copper nitrate	100		S
Aniline (aminbenzène)	100		S	Potassium nitrate	100		S
Benzene	100		NS	Sodium nitrate	10		S
Sodium benzoate	100	48°C	S	Nitrobenzene	100		S
Potassium dichromate	100		S	Perchlorethylene	100		NS
Beer	100		S	Potassium permanganate	100		NS
Borax			L	Sodium peroxide	100	48°C	S
Butyl alcohol	100		S	Hydrogen peroxide	100		S
Calcium carbonate	100		S	Ammonium phosphate	100		S
Potassium carbonate	100		S	Pyridine	100		S
Sodium carbonate	35		NS	Regulations tetrachlorethylene	100		S
Diesel			S	Sodium silicate			S
Sodium chlorate	100		NS	Aluminum sulfate	100		S
Chlorhydrate of aniline	100		S	Sulfate of ammonium	100		S
Chlorobenzene	100		L	Copper sulfate	100		S
Chloroform (trichloro-méthnae)	100		NS	Sulfate de magnesium	100		S
Ammonium chloride	100		S	Nickel sulfate	100		S
Barium chloride	100		NS	Potassium sulfate	100		S
Benzylchloride	100		NS	Sodium sulfate			S
Calcium chloride	100	48°C	S	Zinc sulfate	100	48°C	S
Copper chloride	100		S	Ferrous sulfate	100		S
Ferrous sulfate	100	48°C	NS	Ferric sulfate			S
Magnesium chloride	100		S	Sodium sulfite	100	48°C	S
Potassium chloride	100		S	Sodium sulfide	100		S
Sodium chloride	100		L	CTC			NS
Ferrous chloride	100		NS	Sodium thiosulfate			S
Ferric chloride	100		S	Toluene	100		L
Cyclohexane			S	Urea			S
Motor oil	100		S	Urine			S
Sulfur dioxide	100		S	Xylene			S

L= Limited
S= Resistant
NS= Not resistant

1) For other concentrations please consult our Technical Office.
2) For other temperatures please consult our Technical Office.