

CHEMICAL RESISTANCE GUIDE TO LEVAJOINT & RAYJOINT WATERSTOPS

- ▲ Satisfactory.
- Recommended for the service and conditions shown for Oil Purposes.
- The material may be considered for use when alternative materials are unsatisfactory and where limited life is acceptable.
When PVC is to be used with such chemicals full-scale trials under realistic conditions are particularly necessary.
- ⊘ Unsatisfactory.

CHEMICAL	CONCENTRATION	CONDITIONS		CHEMICAL	CONCENTRATION	CONDITIONS	
		20°C	60°C			20°C	60°C
Acetic Acid	10%	▲	⊘	Carbon Tetrachloride		⊘	⊘
Acetic Acid	60%	▲	●	Casein		▲	▲
Acetic Acid	Glacial	⊘	⊘	Chlorine	10% (dry gas)		
Acetic Anhydride		⊘	⊘	Chlorine	100% (dry gas)		
Acetone	Traces	⊘	⊘	Chlorine	10% (moist gas)		
Acetone	100%	⊘	⊘	Chlorine Water	Sat. Solution	●	⊘
Adipic Acid				Chlorobenzene		⊘	⊘
Alcohol allyl		⊘	⊘	Chloroform		⊘	⊘
Alcohol ethyl	40% w / w water	▲		Chlorosulfonic Acid		⊘	⊘
Alcohol ethyl	100%	▲		Chromic acid	Plating solution	⊘	⊘
Alcohol isopropyl		▲		Chromic acid	Concentrate		
Alcohol methyl	6% aqueous solution	▲	▲	Citric acid		▲	
Alcohol methyl	100%	▲	▲	Copper Salts		▲	▲
Aluminum Salts		▲	▲	Cyclohexanol	All concentrations	▲	
Allyl chloride		▲	▲	Cyclohexanone		⊘	⊘
Ammonia	s.g.=0.88 aq. solution	▲	⊘	Detergents, Synthetic	All concentrations	▲	
Ammonia	Dry gas			Developers photo		▲	▲
Ammonia	Liquid			Dextrose		▲	▲
Ammonium hydroxide		▲		Dichlorethylene		⊘	⊘
Ammonium salts		▲	▲	Dichlorobenzene		⊘	⊘
Ammonium sulfide		▲	⊘	Diesel Oil		⊘	⊘
Aniline		⊘	⊘	Diethyl ether		⊘	⊘
Animal oils		▲		Dimethylamine			
Barium salts		▲	▲	Emulsifiers	All concentrations	▲	▲
Beer		▲		Emulsions photo.		▲	▲
Benzaldehyde	Traces	⊘	⊘	Ether		⊘	⊘
Benzaldehyde	100%	⊘	⊘	Ethyl acetate		⊘	⊘
Benzene		⊘	⊘	Ethylene dichloride		⊘	⊘
Borax		▲		Ethylene glycol		▲	
Brine		▲	▲	Fatty acids		▲	▲
Bromine	Gas Traces	⊘	⊘	Ferric salts		▲	▲
Bromine	100% dry gas	⊘	⊘	Fixing solution, photo		▲	▲
Bromine	Liquid	⊘	⊘	Fluorine		⊘	⊘
Butane				Formaldehyde	40% w/w in water	▲	
Butanol		▲		Formic acid	40%		
Butyl acetate		⊘	⊘	Formic acid	50%	●	⊘
Butyric acid	20% aqueous solution	▲		Formic acid	100%	⊘	⊘
Butyric acid	Concentrate	⊘	⊘	Glucose		▲	▲
Calcium hydroxide		▲		Glycerine		▲	
Calcium hypochlorite		▲		Grape sugar		▲	▲
Calcium salts		▲	▲	Hydrochloric acid	10% aqueous solution	▲	▲
Carbon dioxide		▲	▲	Hydrochloric acid	22%	▲	▲
Carbon disulphide		⊘	⊘	Hydrochloric acid	Concentrate	▲	●
Carbon monoxide		▲	▲	Hydrofluoric acid	4% aqueous solution	▲	▲

CHEMICAL	CONCENTRATION	CONDITIONS		CHEMICAL	CONCENTRATION	CONDITIONS	
		20°C	60°C			20°C	60°C
Hydrofluoric acid	40% aqueous solution	▲		Photo Emulsions		▲	▲
Hydrofluoric acid	60% aqueous solution	⊘	⊘	Photo Fixing solution		▲	▲
Hydrofluoric acid	Concentrate	⊘	⊘	Picric Acid	1% w/w in water	▲	▲
Hydrogen		▲	▲	Picric Acid	10% w/w in water	▲	
Hydro. Brom. Anhydrous		▲		Potassium hydroxide	1% aqueous solution	▲	▲
Hydro. Chloride anhydr.		▲		Potassium hydroxide	10% aqueous solution	▲	▲
Hydrogen fluoride		▲		Potassium hydroxide	Concentrate aq. Solution	▲	⊘
Hydrogen peroxide	3% (10 volume)	▲		Potassium salts		▲	▲
Hydrogen peroxide	12% (40 volume)	▲		Propane		■	■
Hydrogen peroxide	30% (100 volume)	▲		Propylene dichloride		⊘	⊘
Hydrogen peroxide	90% and above	▲		Salicylic acid			
Hydrogen sulphite		▲		Sea water		▲	▲
Iodine	Solution in potassium			Soap solution		▲	
Iodine	Iodide	⊘	⊘	Sodium hydroxide	1% aqueous solution	▲	●
Lactic acid	10%	▲		Sodium hydroxide	10% aqueous solution	▲	⊘
Lactic acid	100%	⊘	⊘	Sodium hydroxide	40% aqueous solution	▲	⊘
Lacquer solvents		●	⊘	Sodium hydroxide	Concentrate aq. solution	▲	⊘
Lauric acid		▲		Sodium hypochloride	15% act. cl.	▲	●
Lauryl alcohol		▲	▲	Sodium salts		▲	▲
Lead salts		▲	▲	Sulphur dioxide	Dry	▲	▲
Magnesium salts		▲	▲	Sulphur dioxide	Moist		⊘
Manganese sulphate	Concentrated solution	▲	▲	Sulphur dioxide	Liquid		⊘
Mercuric chloride		⊘	⊘	Sulphuric acid	10%	▲	▲
Methyl chloride		⊘	⊘	Sulphuric acid	45%	▲	▲
Methyl ethyl ketone		⊘	⊘	Sulphuric acid	50%	▲	●
Methylene chloride		⊘	⊘	Sulphuric acid	60%	●	●
Milk		▲		Sulphuric acid	98%	⊘	⊘
Mineral oils		■	■	Sulphuric acid	Fuming	⊘	⊘
Mix acids-sulphur/nitrate	Various proportions		⊘	Sulphurous acid	30%	▲	
Molasses		▲	▲	Tallow		▲	
Naphta		⊘	⊘	Tannic acid		▲	
Naphtalene		⊘	⊘	Tanning extracts		▲	
Nickel salts		▲	▲	Tartaric acid		▲	
Nitric acid	10%	▲		Tetraethyl lead		▲	
Nitric acid	25%	▲	●	Tetrahydrofuran		⊘	⊘
Nitric acid	50%	▲	⊘	Tetralin		⊘	⊘
Nitric acid	70%	●	⊘	Toluene		⊘	⊘
Nitric acid	95%	⊘	⊘	Transformer oil		■	⊘
Nitrobenzene		⊘	⊘	Trichlorethane		⊘	⊘
Nitrogen fertilizers		▲		Triethanolamine		▲	▲
Nitrous fumes	Moist		⊘	Trychloethylene		⊘	⊘
		▲		Triethylamine			
Oxalic acid		▲		Turpentine			
Oxygen		▲	▲	Urea		▲	
Ozone		▲		Vegetable oils		▲	
Palmitic acid		▲		Vinagar		▲	
Paraffin		●		Vinyl acetate		⊘	⊘
Petrol		■	■	Water		▲	▲
Petrol benzene mixture	80 : 20	⊘	⊘	Wetting agents	All concentrations	▲	▲
Phenol			⊘	Wines & spirits		▲	
Phosphoric acid	20% aqueous solution	▲	▲	Xylene		▲	▲
Phosphoric acid	30% aqueous solution	▲	▲	Zinc salts		▲	▲
Photo developers		▲	▲				

This is an indicative list intended for general guidance only. The information given hereby is based on our best knowledge and experience. No guarantee can be given as much upon the exact working conditions of each case separately.

LEVAJOINT & RAYJOINT - PVC WATERSTOPS - ARE TRADE MARKS OF SOCIETE RAYMOND BARAKEH SAL - LEBANON