

CHEMICAL RESISTANCE IN GENERAL USE

	Resistant	Limited Resistance	Not Resistant		Resistant	Limited Resistance	Not Resistant		Resistant	Limited Resistance	Not Resistant
	Re	₽ ⊊.	S S		Re	Ę.	8 8 8		Re	₽ Ę	S S
Paint				Chlorophenol			Х	Nickel sulphate	X		
Acrylic paints and lacquers		Х		Chromic acid		Х		Nitric acid, to 20%			
Aromatic-free hydrocarbons	Х			Citric acid, to 20%	Х			Nitric acid, 20-70%		Х	
Nitrocellulose			Х	Copper sulphate	Χ			Nitric acid, over 70%			Х
Oil paints, pure	Х			Cresol			Χ	Oxalic acid	Х		
Thinners, general			Χ	Cyclohexane	Х			Paraffin		Х	
Chemical Process Baths				Diacetone alcohol			Χ	Perchloroethylene			Х
Electroplating baths	Х			Diamyl phthalate		Х		Petroleum ether	Х		
Photographic baths	Х			Dibutyl phthalate			Χ	Phenols			Х
Building Materials and Pr	otec	tive		Diethylene glycol	Χ			Phosphoric acid, to 10%	Х		
Agents for Buildings		Dioxane			Χ	Phosphorus			Х		
Bituminous emulsion			Х	Ether			X	Phosphorus trichloride			Х
Cement	Х			Ethyl acetate			Х	Picric acid, 1% in water	Х		
Hot bitumen		Х		Ethyl alcohol, to 15%	Х			Potassium carbonate			
Mortar	Х			Ethyl alcohol, 15-30%		Х		Potassium chloride	Х		
Plaster of paris	Х			Ethyl alcohol, above 30%			Х	Potassium cyanide			
Red lead	Х			Ethyl bromide			Х	Potassium dichromate			
Chemicals, Solvents, etc.				Ethyl butyrate			Х	Potassium hydroxide	Х		
Acetic acid, glacial			Χ	Ethylene bromide			Х	Potassium nitrate	Х		
Acetic acid, to 25%		Х		Ferric chloride	Х			Potassium permanganate	Х		
Acetic acid, 5% (vinegar)	Х			Ferrous chloride	Х			Silicon tetrachloride			Х
Acetone			Х	Ferrous sulphate	Х			Silver nitrate			
Alum	Х			Formic acid, to 2%	Х			Soap solution			
Aluminium chloride	Х			Formic acid, to 40%		Х		Soda			
Aluminium oxalate	Х			Glycerol	Х			Sodium bisulphite			
Aluminium sulphate	Х			Glycol	Х			Sodium carbonate			
Ammonia, aqueous solution	Х			Heptane	Х			Sodium chlorate			
Ammonium sulphate	Х			Hexane	Х			Sodium chloride			
Amyl acetate			Х	Hydrochloric acid	Х			Sodium hydroxide	Х		
Aniline			Х	Hydrofluoric acid, to 20%	Х			Sodium hypochlorite	Χ		
Arsenic	Х			Hydrogen peroxide, to 40%	Х			Sodium sulphate	Х		
Arsenic acid	Х			Hydrogen peroxide, over 40%		Х		Sodium sulphide	Х		
Battery acid	Х			lodine	Х			Stearic acid	Х		
Benzaldehyde			Х	Isopropyl alcohol, to 50%		Х		Sulphur			
Benzene			Х	Lactic acid, to 80%		Х		Sulphur dioxide, liquid			Х
Bromine			Х	Magnesium chloride	Х			Sulphuric acid, to 30%	Х		
Butanol		Х		Magnesium sulphate	Х			Sulphurous acid, conc.		Х	
Butyl lactate			Х	Manganese sulphate	Х			Sulphurous acid, to 5%	Х		
Butyric acid, to 5%	Х			Mercury	Х			Sulphuryl chloride	Х		
Calcium chloride	Х			Methanol, absolute			Х	Tartaric acid, to 50%	Χ		
Calcium hypochlorite	Х			Methanol, to 15%		Х		Thionyl chloride			Х
Carbon disulphide			Х	Methyl ethyl ketone			Х	Toluene			Х
Carbon tetrachloride			Х	Methylated spirits			Х	Triethylamine			
Chlorinated hydrocarbons			Х	Milk of lime	Х			Trichloroacetic acid			Х
Chlorine, liquid			Х	Monobromonaphthalene	Х			Tricresyl phosphate			
Chlorine water		Х		Motor fuel, benzene-free	Х			Turpentine		Х	
Chloroethyl acetate			Х	Motor fuel, with benzene			Х	Turpentine substitute		Х	

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		Resistant	Limited Resistance	Not				
	Urea, to 20%	Х						
	Xylene							
	Zinc sulphate, aqueous		Х					
	Zinc sulphate, solid	Χ						
	Disinfectants							
	Aqueous hypochlorite solution	Χ						
	Bleaching powder, to 5%	Х						
	Carbolic acid							
	Hydrogen peroxide, to 40%	Х						
	Hydrogen peroxide, over 40%		Х					
	Lugol solution	Χ						
`, 	Mercuric chloride	Х						
non'	Surgical spirit							
. Ve	Tincture of iodine, 5%			:				
₹ :	Greases, Oils, Waxes							
go.	Animal	Х						
/lat (Mineral	Х						
pra)	Silicone oil		Х					
of S	Vegetable		Х					
nark	Plastics							
ader	Foams	Х						
*	Foams, containing plasticizer			:				
≿	Polyamide	Х						
≡	Polyethylene	Х						
uisv	PVC	Х						
-	PVC, plasticized							
일	Rubber	Х						
ating	Rubber, containing plasticizer			:				
obel Coa	Food and Spices							
	Aniseed, bay, nutmeg	Χ						
0 N	Cloves							
*Trademark of Akzo Nobel Coating, Inc., Louisville, KY **Trademark of Spraylat Corp., Mt. Vernon, NY	Coffee beans, flavored		Х					
	Coffee beans, unflavored	Х						
	Honey, pure	Х						
Trac	Ice cream	Х						
*								

	Resistant	Limited Resistance	Not Resistant
Marinades	Х		
Meat and fish	Х		
Pepper, cinnamon, onions	Х		
Salt	Х		
Gases and Vapors			
Ammonia	Х		
Bromine vapor (dry)		Х	
Carbon dioxide	Х		
Carbon monoxide	Х		
Chloride vapor (dry)		Х	
Exhaust gases, containing HCI	Х		
Exhaust gases, containing HF	Х		
Exhaust gases, containing H,SO4	Х		
Hydrogen sulphide	Х		
Methane	Х		
Nitric oxide	Х		
Oxygen	Х		
Ozone	Х		
Sulphur dioxide (dry)	Х		
Natural gas (butane)	Х		
Beverages and Liquids			
Beer, wine	Х		
Camomile extract	Х		
Chocolate	Х		
Coffee, tea	Х		
Fruit juice, milk	Х		
Nail polish			Х
Nail polish remover			Х
Peat water	Χ		
Sea water	Х		
Soaps	Х		
Spirits, to 30%	Χ		
Sprays		Х	
Vinegar	Х		
Water, mineral water	Χ		
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	Re	E E	N S				
Cleaning Agents							
Acids - see under chemicals							
Alcohol, absolute			Χ				
Alcohol, to 30%	Х						
Alkalis - see under chemicals							
Ammonia	Х						
Carbon tetrachloride			Χ				
Methylated spirits			Χ				
Paraffin		Х					
Perchloroethylene			Χ				
Petrol, pure	Х						
Petrol mixture, containing benzer	ne		Χ				
Petroleum ether	Х						
Soap solution	Х						
Soda solution	Х						
Solvent stain removers			Χ				
Trichloroethylene			Х				
Turpentine		Х					
Turpentine substitute		Х					
Pest Control Agents							
Aqueous solutions of pesticides		Х					
Protective (strippable) Coatings							
Grip Mask® *	Х						
Sign Strip® ** strippable masking		Х					
Miscellaneous							
Urine	Х						

The information on this chart can be used for ACRYLITE® GP and ACRYLITE® FF acrylic sheet. ACRYLITE FF sheet is dissolved faster by solvents than ACRYLITE GP sheet. All information is based on 72°F (23°C) test temperature and stress free material. The practical performance depends on usage temperatures and actual stresses. If you are not sure about your application, please call CYRO's Technical Service Department.

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Technical Service

For more information or specific questions about your project, contact CYRO's Technical Service Representatives.

CYRO Industries

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Visitors have immediate access to frequently asked questions, technical concerns, physical properties, processing conditions, fabrication tips, regulatory compliance information, engineering guidelines, tips for troubleshooting, and hundreds of other facts about acrylics from one of North America's leading manufacturers of acrylic-based polymer and sheet products.

