

Chemical Resistance Guide for Spill Decks, Spill Pallets and Ramp

R: Resistant **LR:** Limited Resistance **NR:** Not Recommended

High Density Polyethylene (HDPE)						
Chemical	Resistance			Chemical	Resistance	
	68F	140F			68F	140F
	20°C	60°C			20°C	60°C
Acetaldehyde	R	NR		Chromic acid (80%)	R	R
Acetic acid (10%)	R	R		Citric acid	R	R
Acetic acid (glac./anh.)	R	NR		Copper salts (most)	R	R
Acetone	R	NR		Detergents, synthetic	R	R
Alcohols	R	NR		Emulsifiers, concentrated	R	R
Alum	R	R		Ferric chloride	R	R
Aluminium chloride	R	R		Ferrous sulphate	R	R
Aluminium sulphate	R	R		Fluorinated refrigerants	R	NR
Ammonia, anhydrous	R	R		Fluorosilic acid	R	R
Ammonia, aqueous	R	R		Formaldehyde (40%)	R	R
Ammonium chloride	R	R		Formic acid	R	R
Aniline	R	NR		Fruit juices	R	R
Antimony trichloride	R	R		Glycerine	R	R
Ascorbic acid	R	R		Glycols	R	R
Beer	R	R		Glycol, ethylene	R	R
Benzaldehyde	R	NR		Glycolic acid	R	R
Benzoic acid	R	R		Hydrobromic acid (50%)	R	R
Boric acid	R	R		Hydrochloric acid (10%)	R	R
Brines, saturated	R	R		Hydrochloric acid (conc.)	R	R
Bromide (K) solution	R	R		Hydrocyanic acid	R	R
Butyl acetate	LR	LR		Hydrofluoric acid (40%)	R	R
Calcium chloride	R	R		Hydrofluoric acid (75%)	R	R
Carbonic acid	R	R		Hydrogen peroxide (30%)	R	NR
Caustic soda & potash	R	R		Hydrogen peroxide (30 - 90%)	R	NR
Cellulose paint	R	R		Hydrogen sulphide	R	R
Chlorates of Na, K, Ba	R	R		Hypochlorites	R	R
Chlorine, dry	LR	NR		Lactic acid (90%)	R	R
Chlorine, wet	LR	NR		Lead acetate	R	R
Chlorides of Na, K, Ba	R	R		Lime (CaO)	R	R

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Chemical	Resistance		Chemical	Resistance	
	68F 20°C	140F 60°C		68F 20°C	140F 60°C
Maleic acid	R	R	Sodium carbonate	R	R
Manganate, potassium (K) Mercuric chloride	R R	R R	Sodium peroxide Sodium silicate	R R	R R
Mercury Methanol	R R	R R	Sodium sulphide Stannic chloride	R R	R R
Methylene chloride	LR	NR	Starch	R	R
Milk products Moist air Molasses Nickel salts Nitrates of Na, K and NH ₃	R R R R R	R R R R R	Sugar, syrups & jams Sulphates (Na, K, Mg, Ca) Sulphites Sulphur Sulphur dioxide, dry	R R R R R	R R NR R R
Nitric acid (<25%) Nitric acid (50%) Nitrite (Na) Oils, diesel Oils, essential Oils, mineral	R R R R R R	R NR R R NR R	Sulphur dioxide, wet Sulphur dioxide (96%) Sulphuric acid (<50%) Sulphuric acid (70%) Sulphuric acid (95%) Tallow	R R R R R R	NR R R R NR NR
Oils, vegetable and animal	R	NR	Tannic acid (10%)	R	R
Oxalic acid	R	R	Tartaric acid	R	R
Ozone Perchloric acid Phosphoric acid (20%) Phosphoric acid (50%) Phosphoric acid (95%) Phosphorous pentoxide Picric acid	R R R R R R R	LR R R R NR R NR	Urea (30%) Vinegar Water, distilled. Water, soft Water, hard Wetting agents (<5%) Yeast	R R R R R R R	R R R R R R ND
Salicyl aldehyde Sea water	R R	R R	Zinc chloride	R	R
Silicic acid	R	R			
Silicone fluids	R	NR			
Silver nitrate	R	R			