

Koroseal "DROP-IN"

TANK & CONTAINMENT LININGS

HIGHLY RESISTANT TO STRONG CORROSIVES



Construction: Made of Koroseal® flexible materials as manufactured by RJF International Corporation (formerly a B.F. Goodrich product). **NOW no longer required to be bonded** in application. Can be used in steel, wood, concrete, fiberglass, polypropylene and polyethylene tanks and containments in a wide range of sizes and shapes.

Advantages: Highly resistant to strong corrosives, acids and caustics. Tough, will not rip. Abrasion-resisting. Easily repaired. High electrical resistance; eliminates stray currents. Waterproof, resists action of oil, air, sunlight, gas. Available in thickness' of 1/16" (60 mil), 3/32", 1/8" and 3/16".

Recommendations: KOROSEAL® "Drop-In" liners are recommended for applications where pH levels range from 1 through 14 and temperatures from -20°F to 200°F. Thermal shock is normally not a problem. PROTECTIVE COATINGS, INC. can offer material recommendations based on specific chemical service applications.

Effects of Temperature: Koroseal® "Drop-In" liners are a thermoplastic PVC (Poly Vinyl Chloride) material. Increased temperature usage in chemical services are the result of the Koroseal® "Drop-In" liner design and seam construction as offered by PROTECTIVE COATINGS, INC. Like most linings and coatings, elevated temperatures in chemical environments accelerate the aggressiveness of the chemicals on those materials and ultimately effect the overall service life. Therefore, we would expect longer life with KOROSEAL® "Drop-In" liners at lower than elevated temperatures.

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Limitations: In general Koroseal® "Drop-In" liners are not recommended for organic chemicals containing chlorine or nitrogen groups, glacial acetic acid or acetic anhydride, ketones, lacquer solvents and thinners and petroleum fractions lighter than No. 1 fuel oil. Certain exceptions to these general statements do exist; specific applications should be referred to PROTECTIVE COATINGS, INC., FORT WAYNE, IN 46803. Phone: (800) 992-8299.

Installation

PROTECTIVE COATINGS, INC. is a licensed applicator and maintains a strong field lining service. Experienced workers apply linings wherever customer desires. OR, most applications can be performed by the customer themselves. PROTECTIVE COATINGS, INC. can recommend suitable linings and offer suggestions to improve equipment design.

Chemical resistance of Koroseal® "Drop-In" liners

Typical chemical environments like plating solutions are listed below and on the reverse side. Temperatures listed are for maximum service life of the KOROSEAL® "Drop-In" liners. For specific applications, contact PROTECTIVE COATINGS, INC., FORT WAYNE, IN 46803. Phone: (800) 992-8299.

Plating Solutions —

Max Concentration	°F
Brass	
Cadmium	
Copper	
Lead	150
Nickel	
Tin	
Zinc	
Gold	
Indium	
Rhodium	150
(Have customer approve before furnishing)	
Silver	
Chrome Plating.....	140

EXCLUSIVE SUPPLIER

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Solutions of Inorganic Acids

	Maximum Concentration	°F*
Arsenic.....	Any	150
Carbonic.....	Saturation at Atmospheric Pres.	90
Chlorine Water.....	"	90
(Hypochlorous Acid)		
Fluoboric.....	Any	150
Hydrofluoric.....	60%	90
Hydrofluoric.....	25%	150
Hydrogen sulfide	Saturation at	
water.....	Atmospheric Pres.	90
Muriatic		
(Hydrochloric).....	37%	150
Nitric	10%	150
Nitric	20%	120
Nitric	40%	90
Phosphoric.....	75%	150
Sulfuric.....	50%	150
Sulfuric	70%	90
Sulfurous (Sulfur	Saturation at	
dioxide water).....	Atmospheric Pres.	90
Chromic Acid	40%	140
+Hydrogen Peroxide	30%	90

Stainless Steel Pickling Solutions

Nitric.....	16%	165
Hydrofluoric.....	4%	

Solutions of Inorganic Salts and Alkalis

	Maximum Concentration	°F*
Aluminum Chloride.....	Up to Saturation	150
Aluminum Sulfate.....	"	150
Alums.....	"	150
Ammonium chloride.....	"	150
Ammonium hydroxide.....	"	90
Ammonium sulphate.....	"	150
Barium Sulfide.....	"	150
"Black Liquor" NaOH,Na ₂ S		
Na ₂ CO ₃ , Na ₂ SO ₃	"	90
Calcium bisulfite.....	"	150
Calcium chloride.....	"	150
Calcium Hypochlorite.....	"	90
Caustic soda (Sodium		
hydroxide).....	35%	90
Caustic Soda (Sodium		
hydroxide).....	10%	150
Caustic Potash (Potassium		
hydroxide).....	35%	90
Caustic Potash (Potassium		
hydroxide).....	10%	150
Copper Chloride		
(cupric).....	Up to Saturation	150
Copper Cyanide (in solution		
with alkali cyanides)	"	150
Copper sulfate (cupric).....	"	150
Disodium phosphate.....	"	150
Ferric chloride.....	"	150
Ferrous sulfate (Copperas)...	"	150
Nickel Acetate.....	"	150

Solutions of Inorganic Salts and Alkalis-Cont.

	Maximum Concentration	°F*
Potassium Cuprocyanide.....	Up to Saturation	150
Potassium Dichromate.....	"	150
Sodium or Potassium Antimonate	"	150
" " " Bisulfite	"	90
" " " Acid Sulfate	"	150
" " " Chloride	"	150
" " " Cyanide	"	150
" " " Hypochlorite	"	120
" " " Sulfide	"	150
" " " Thiosulfate	"	150
Tin chloride—either		150
Stannous or Stannic.		
Any aqueous solution		
Trisodium Phosphate.....	Up to Saturation	150
White liquor (NaOH,Na ₂ S, Na ₂ CO ₃).....		90
Zinc Sulfate.....	Up to Saturation	150

Organic materials

	Maximum Concentration	°F*
Amyl Alcohol.....	Any	90
Butyl Alcohol.....	"	90
Casein.....	"	90
Castor Oil.....		90
Citric Acid.....	Up to Saturation	150
Cottonseed Oil.....		90
Cocoonut Oil.....		90
Ethyl Alcohol.....	Any	90
Ethylene Glycol.....	"	90
Gallic Acid.....	Up to Saturation	150
Glucose.....	Any	150
Glue.....	"	150
Glycerine.....	"	90
Hydroquinone.....	"	90
Lactic Acid.....	"	90
Malic Acid.....	"	90
Methyl Alcohol.....	"	90
Mineral Oils.....	"	90
Oleic Acid.....	"	90
Oxalic Acid.....	"	90
Propyl alcohol.....	"	150
Soaps.....	"	90
Tannic Acid.....	Up to Saturation	90
Tartaric Acid.....	"	90
Triethanolamine.....	Any	150

*See effect of temperature (page 1).

+Koroseal not affected, but prospective users should Test lining for possible effect on stability of hydrogen peroxide.

Koroseal® "Drop-In" liners offer temperature and chemical resistance up to 200°F. Consult PROTECTIVE COATINGS, INC. FORT WAYNE, IN regarding use at elevated temperatures. Phone: (800) 992-8299.

Lining recommendations are provided here as a general guide only. Specific applications should be checked with PROTECTIVE COATINGS, INC. FORT WAYNE, IN 46803.

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