



ABOUT US



SUR-SEAL LINERS is a specialty manufacturer that fabricates flexible drop-in liners for corrosion control in tanks, pits, sumps, and both primary and secondary containment areas. With over 25+ years in both the liquid and dry bulk storage tank industry, SUR-SEAL LINERS offers comprehensive and competitive solutions for any project.

FEATURES AND BENEFITS



Shelf-stocked bulk material for faster production, delivery and emergency response.



Engineered in house for your specific product and tank. You'll never find us using off-the-shelf liners.



Tried and true rope-hem fabrication for attaching and battening to tank sidewall.



Floor fabrication (in-factory for factory-controlled welding and fabrication) NOT IN THE FIELD or ELEMENTS OF WEATHER.



Controlled packaging and shipping for easier tracking and installation at every phase.



100% of SUR-SEAL LINERS are fabricated in-house under our complete quality assurance standards and specification.



Contact Us
216-206-7723

www.sursealliners.com
sales@sursealliners.com

PROPERTY TEST METHOD

Base Fabric Type Base Fabric Weight	ASTM D 751	Polyester 6.5 oz/yd ² nominal (220 g/m ² nominal)
Thickness	ASTM D 751	30.0 mils nominal (0.76 mm min.)
Weight	ASTM D 751	30.0 ± 2.0 oz/yd ² (1017 ± 2 g/sq. m)
Tear Strength	ASTM D 751 Trap Tear	40/55 lb. min. (175/245 N min.)
Breaking Yield Strength	ASTM D 751 Grab Tensile	550/550 lb. min. (2448/2448 N min.)
Low Temperature Resistance	ASTM D 2136 4hrs-1/8in Mandrel	Pass @ -30o F (Pass @ -34o C)
Dimensional Stability Hydrostatic	ASTM D 1204 212oF/100o C-1 hr.	0.5% max. each direction
Resistance Blocking Resistance Adhesion-Ply	ASTM D 751 Method A	800 psi min. (5.51 MPa min.)
Adhesion- Heat Welded Seam	ASTM D 751 180o F/82o C	#2 Rating max.
Dead Load Seam Strength	ASTM D 413 Type A	15 lb./in. min. or film tearing bond (13 daN/5 cm min. or FTB)
Bonded Seam Strength	ASTM D 751 Dielectric Weld	40 lb./2in. min. (17.5 daN/5 cm min.)
Abrasion Resistance	ASTM D 751 4-Hour Test	2000 cycles min. before babric exposure, 50 mg/100 cycles max. weight loss
Weathering Resistance	ASTM D 751 Procedure A/ Grab Test Method	8000 hours with no appreciable change, stiffening, or cracking of coating
Water Absorption	ASTM D 3389 H-18 Wheel 1 kg Load	0.025 kg/m ² max. @ 70 deg. F
Wicking	ASTM G 153	1/8 in. max.
Bursting Strength	ASTM D 471/ Section 12 7 Days	750lb. min.
Puncture Resistance	ASTM D 751 ASTM D 751 Ball Tip ASTM D 4833 ASTM D 696	275lb. min (1200 N min.)
Coefficient of Thermal Expansion/Contraction	FTMS 101C Method 2031	8x 10-6 in/in/o F max. 1/4x10-5 cm/mc/o C max.
Environmental/Chemical Resistance Properties	ASTM D 741 7-day Total Immersion with Exposed Edges	See Chemical Resistance Table*

CHEMICAL/ENVIRONMENTAL RESISTANCE

PART 1 - XR-5® FLUID RESISTANCE GUIDELINES

The data below is the result of laboratory test and is intended to serve only as a guide. NO performance warranty is intended or implied. The degree of chemical attack on any material is governed by the conditions under which it is exposed. Exposure time, temperature, and size of the area of exposure usually varies considerably in application, therefore, this table is given and accepted at the user's risk. Confirmation of validity and suitability in specific cases should be obtained.

When considering for specific applications, it is suggested that a sample be tested in actual service before specification. Where impractical, tests should be devised which simulate actual service conditions as closely as possible.

EXPOSURE	RATING	EXPOSURE	RATING
AFFF	A	JP4- Jet Fuel	A
Acetic Acid (5%)	B	JP5- Jet Fuel	A
Acetic Acid (50%)	C	JP8- Jet Fuel	A
Ammonium Phosphate	T	Kerosene	A
Ammonium Sulfate	T	Magnesium Chloride	T
Antifreeze (ethylene glycol)	A	Magnesium Hydroxide	T
Animal Oil	A	Methanol	A
Aqua Regia	X	Methyl Alcohol	A
ASTM Fuel A (100% Iso-octane)	A	Methyl Ethyl Ketone	X
ASTM Oil #2 (Flash pt. 240° C)	A	Mineral Spirits	A
ASTM Oil #3	A	Naphtha	A
Benzene	X	Nitric Acid (5%)	B
Calcium Chloride Solutions	T	Nitric Acid (50%)	C
Calcium Hydroxide	T	Perschloroethylene	C
20% Chlorine Solution	A	Phenol	X
Clorox	A	Phenol Formaldehyde	B
Conic. Ammonium Hydroxide	A	Phosphoric Acid (50%)	A
Corn Oil	A	Phosphoric Acid (100%)	C
Crude Oil	A	Phthalate Plasticizer	C
Diesel Fuel	A	Potassium Chloride	T
Ethanol	A	Potassium Sulphate	T
Ethyl Acetate	C	Raw Linseed Oil	A
Ethyl Alcohol	A	SAE-30 Oil	A
Fertilizer Solution	A	Salt Water (25%)	B
#2 Fuel Oil	A	Sea Water	A
#3 Fuel Oil	A	Sodium Acetate Solutions	T
Futural	X	Sodium Acetate Solutions	T
Gasoline	B	Sodium Bisulfite Solution	A
Glycerin	A	Sodium Hydroxide (60%)	T
Hydraulic Fluid-Petroleum Based	A	Sodium Phosphate	A
Hydraulic Fluid-Phosphate Ester Based	C	Sulphuric Acid (50%)	A
Hydrocarbon Type II (40% Aromatic)	C	Tanic Acid (50%)	C
Hydrochloric Acid (50%)	A	Toluene	A
Hydrofluoric Acid (5%)	A	Transformer Oil	A
Hydrofluoric Acid (50%)	A	Turpentine	A
Hydrofluosilicic Acid (30%)	A	Urea Formaldehyde	A
Isopropyl Alcohol	T	UAN	A
Ivory Soap	A	Vegetable Oil	A
Jet A	A	Water (200° F)	A
		Xylene	X
		Zinc Chloride	T

Ratings are based on visual and physical examination of samples after removal from the test chemical after the samples of Black XR-5 were immersed for 28 days at room temperature. Results represent ability of material to retain its performance properties when in contact with the indicated chemical.

Rating Key:

- A - Fluid has little or no effect
- B - Fluid has minor to moderate effect
- C - Fluid has severe effect
- T - No data - likely to be acceptable
- X - No data - not likely to be acceptable

MATERIAL SUPPLIER



NSF INTERNATIONAL

Sur-Seal Liners Material Supplier

NSF International Certifies that the products appearing on this Listing conform to the requirements of
NSF/ANSI Standard 61 - Drinking Water System Components - Health Effects

Seaman Corporation
1000 Venture Boulevard
Wooster, OH 44691
United States
330-262-1111

Facility : Bristol, TN

Protective (Barrier) Materials

Water Water
Water Contact Contact Contact
Trade Designation Size

Restriction Temp Material

Liners

3024 XR-5° PW Tan >= 50 gal.		CLD	23	PVCEN
3024 XRTM-3 PW Tan >= 500 gal.		CLD	23	PVCEN
3522 XR3 PW Black >= 500 gal.		CLD	23	PVCEN
3522 XR3 PW Marine Blue/Marine Blue >= 500 gal.	CLD	23	PVCEN	
6730 XRTM-3 PW Black >= 500 gal.		CLD	23	PVCEN
6730 XRTM-3 PW White/Black >= 500 gal.		CLD	23	PVCEN
8130 XR-5° PW White/Black >= 50 gal.	CLD	23	PVCEN	
8130 XRTM-3 PW Black >= 500 gal.		CLD	23	PVCEN
8130 XRTM-3 PW Black/Marine Blue >= 500 gal.		CLD	23	PVCEN
8130 XRTM-3 PW Black/XR-5° Gray >= 500 gal.	CLD	23	PVCEN	
8130 XRTM-3 PW Marine Blue/Marine Blue >= 500 gal.	CLD	23	PVCEN	
8130 XRTM-3 PW White >= 500 gal.		CLD	23	PVCEN
8130 XRTM-3 PW White/Black >= 500 gal.		CLD	23	PVCEN
8130 XRTM-3 PW White/Marine Blue >= 500 gal.		CLD	23	PVCEN
8138 XRTM-3 PW Black >= 500 gal.		CLD	23	PVCEN
8138 XRTM-3 PW White/Black >= 500 gal.		CLD	23	PVCEN
8142 XR-5° PW DC7 >= 50 gal.		CLD	23	PVCEN
8142 XR°-5 PWR MS402/DC7 Tan/Black >= 250,000 gal.	CLD	23	PVCEN	
8228 XR°-3 PW DC9/DC7 Marine Blue/Black >= 500 gal.	CLD	23	PVCEN	
8228 XRTM-3 PW Black >= 500 gal.		CLD	23	PVCEN
8228 XRTM-3 PW White/Black >= 500 gal.		CLD	23	PVCEN
9146 XR-5° PW White/White >= 50 gal.		CLD	23	PVCEN

15 year old Aquastore gets a Sur-Seal Liner to expand its service life another 20 years.



Every Sur-Seal Liner is backed by a 10 year material warranty.

Dont' let your investment corrode away.

www.sursealliners.com

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