

## RiteFloat RF Series

### Flotation Foam (Formerly UI 7500)

#### General Description

RiteFloat (UI 7500) is a closed cell polyurethane foam used in pontoons – both external and internal – of floating roof storage tanks. The purpose of installing the RiteFloat in pontoons is to prevent them from leaking and causing the roof to sink. RiteFloat acts as a fire retardant and provides corrosion resistance to water and hydrocarbons including crude oil, diesel, gasoline, and jet fuel. This foam may also be used in double wall tanks and vessels such as barges.

Meets or exceeds Mil Spec P-21929B

#### Mixing and Thinning Instructions:

RiteFloat should be applied 1:1 by volume Part A to Part B, preferably with a plural component spray machine. Compartment does not need to be clean or dry, but do not insert into pontoons with more than ¼" liquids.

#### Coverage:

Theoretical coverage is 2.5 lbs RiteFloat per cubic foot of space to be filled. (Consult your Ritek's Technical Representative for recommendations).

#### Clean up:

Clean all equipment immediately after use with methyl ethyl ketone (MEK), acetone, or DOP solvents. Use clean solvent only. In case of spill, absorb and dispose of in accordance with Local, State, and/or Federal regulations.



FOR PROFESSIONAL USE ONLY  
NOT FOR RESIDENTIAL USE  
KEEP OUT OF REACH OF CHILDREN

#### Typical Component Properties

	Part A Polymeric MDI	Part B Polyol Blend
Viscosity @ 77°F (25° C), cps	200	120
Specific Gravity @ 77°F (25° C), g/mL	1.24	1.14
Mixing Ratio % by volume	50	50

#### Typical Reactive Properties

Hand Mix Reactivity @ 77°F (25° C)	
Cream Time – seconds	27
String Time – seconds	125
Cup Density, % by weight	2.5

Typical properties given do not constitute a supply specification.

#### Packaging/Storage

RiteFloat is available in 50-gallon steel drums. For additional packaging options, please contact your local Ritek's representative.

Store indoors in original, tightly sealed container out of direct sunlight between 40°F (5°C) and 100°F (38°C), 0% to 90% relative humidity. Warranted shelf life is 1 year from date of manufacture (DOM) in original unopened and properly stored container.

#### Safety, Health and Environmental Info:

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state, and federal regulations.

Avoid contact with skin and use good ventilation. Wear chemically resistant gloves (nitrile are recommended) and chemical safety glasses. If skin contact is made, wash immediately with soap and water. Do NOT use solvents to clean skin.

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##### Typical Foam Properties

Density, ASTM D-1622		
Molded, overall	3.4	
Core, pcf	2.8	
Compressive Strength		
10% deflection, ASTM D-1621		
Parallel, psi	25.1	
Perpendicular, psi	31.4	
Compressive Strength Change		
Mil-P-21929B, % change	19.0	
(after humid aging)	3	
Initial K-Factor, ASTM C-518		
BTU in/hr sq. ft. °F	0.149	
Shear Strength		
ASTM C-273, psi	25.9	
Tensile Strength		
ASTM D-1623, psi	35.0	
Water Absorption		
ASTM D-2842, lbs/sq. ft.	0.076	
% by Volume	4.4	
Tumbling Friability		
ASTM C-421, % loss	9.7	
Closed Cell Content		
ASTM D-2856, %	83	
Compression Set		
Mil-P-21929B, % loss	0.79	
Oil Resistance		
ASTM D-471 Mil-P-21929B	Pass	
Fire Resistance		
ASTM D-1692 Mil-P-21929B	Pass	
Dimensional Stability		

RiteFloat has been tested against the following media:

- Gasoline                   Pass
- Crude Oil                 Pass
- Water                     Pass
- Salt Water               Pass
- Naphtha                 Pass
- Xylene                  Pass
- Toluene                 Pass
- Diesel Fuel              Pass
- MEK                     Not Recommended
- Ethanol                 Not Recommended



	ASTM D-2126, % volume change		
	@ -20°F	@ 158°F	@158°F & 100% RH
	(-29°C)	(70°C)	(70°C)
1 Day	0.04	1.6	3.3
7 Days	0.07	4.6	5.8
14 Days	-0.02	4.6	6.4
28 Days	0.22	5.4	7.5





## Comparison of Pontoon Repair Methods

COMPARISON OF PONTOON REPAIR METHODS				
	WELDING	PLASTIC BALLS	BLADDER	RITEFLOAT
STOPS ROOF FROM SINKING	YES	YES	YES	YES
STOPS THE LEAK(S)	YES	NO	NO	YES
CAN BE DONE IN-SERVICE	NO	YES	YES	YES
STOPS VAPOR EMISSIONS	YES	NO	NO	YES
REDUCES FIRE THREAT	YES	NO	NO	YES
CAN BE COMPLETED QUICKLY	NO	YES	YES	YES
INCREASES ROOF STABILITY	NO	NO	NO	YES
CONSIDERED A PERMANENT REPAIR	YES	NO	NO	YES

- Plastic balls can provide a maximum of 60% flotation buoyancy and extensive leaking may still cause the roof to sink.
- Over time, sharp objects within the pontoon may puncture the bladder, causing failure.

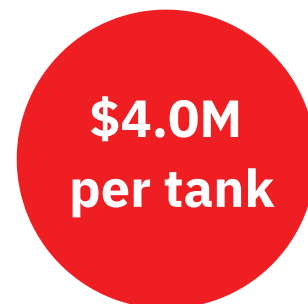
### Positive Cost Impact:

Estimated Cost Savings Utilizing RiteFloat Flotation Foam for Pontoons of Floating Roofs

Tank Diameter	Barrel Capacity	Crude Oil Inventory Cost per Day	Total Crude Oil Inventory Cost per Day
140 ft	137.1 Mbbl	\$0.90 / bbl	\$123,390 / Day

Items	Typical Welded Pontoon Repair	RiteFloat Installation
Days out of Service	30	0
Labor Repair/ Installation Cost	\$.3M	\$20K
Estimated Lost Revenue	\$3.7M	
Total Cost	\$4.0M	\$20K

### VALUE ADDED



\*Estimated values based on customer data

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### Case History

- 1) **Ashdod Oil Refineries** –
  - Ashkelon Israel
- 2) **BHP** –
  - Terminal – Trinidad
- 3) **BP** –
  - Terminal – Trinidad
  - Terminal – The Netherlands
- 4) **Chevron** –
  - Australia
  - Venezuela
  - South Africa
  - North America
- 5) **Citgo** –
  - Sulphur, LA
- 6) **ConocoPhillips** –
  - Humber Refinery – United Kingdom
- 7) **ExxonMobil** –
  - Baton Rouge Refinery – Louisiana
  - Beaumont Refinery – Texas
  - Fawley Refinery – United Kingdom
  - Deer Park Pipeline Terminal – Texas
  - 350' Barge located in St. James, LA
- 8) **Europe Asia Pipeline Company** –
  - Ashkelon, Israel
- 9) **Holly Refining** –
  - Salt Lake City Refinery – Utah
- 10) **Marathon Petroleum Co.** –
  - Refinery – Kentucky
- 11) **Magellan Midstream Partners** –
  - Texas Terminal(s)
  - Oklahoma Terminal(s)
  - Iowa Terminal(s)
  - Tennessee Terminal(s)
  - Kansas terminal(s)
- 12) **Oil Tanking** –
  - Houston Terminal – Texas
- 13) **Pasadena Refining Systems, Inc.** –
  - Pasadena Refinery – Texas
- 14) **Sinclair** –
  - Sinclair Refinery – Wyoming
- 15) **STAT Oil LNG** –
  - Terminal – Denmark
  - Tankers – Double Wall Storage Tanks
- 16) **South Riding Point Holdings** (now a Stat facility) –
  - Terminal – Bahamas
- 17) **Sunoco** –
  - Eagle Point Refinery – New Jersey
  - Philadelphia Refinery – Pennsylvania
- 18) **TEPPCO** (now Enterprise) **Pipeline** –
  - Baytown Terminal – Texas
- 19) **Tesoro** –
  - Refinery – North Dakota
- 20) **Valero** –
  - Norco Refinery – Louisiana
  - Paulsboro Refinery – New Jersey
  - Memphis Refinery – Tennessee
  - Aruba Refineries
  - 300' Barge located in Memphis, TN
- 21) **Venoco Company** –
  - Refinery – California
- 22) **US Navy** –
  - Norfolk, VA
  - Pascagoula, MS
- 23) Multiple Patrol Boats during Vietnam War (1955-1975) varying in size (50'-175') for the **United States Navy Mil-P-21929**. Modifications for high heat and chemical resistance followed by density improvements for multiple applications outside of marine and military use.
- 24) **Misc. Vessels:**
  - Denmark
  - Middle East
  - Caribbean
  - Europe

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