

# AMERICAN COATINGS

## UI 7500 UNICOAT FLOTATION FOAM

### TYPE AND DESCRIPTION

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 UI 7500 in pontoons is to prevent them from leaking and causing the roof to sink. UI 7500 acts as a fire retardant and provides corrosion resistance to hydrocarbons including crude oil, diesel, gasoline, and jet fuel. This foam may also be used in double wall tanks and vessels for LNG product storage and transportation.

**Meets or exceeds Mil Spec P-21929B**

### TYPICAL COMPONENT PROPERTIES

	Part A Polymeric MDI	Part B Polyol Blend
Viscosity @ 25° C, cps	200	120
Specific Gravity @ 25° C g/ml.	1.24	1.14
Mixing Ratio % by weight	50	50

### TYPICAL REACTIVE PROPERTIES

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

### TYPICAL FOAM PROPERTIES

Density, ASTM D-1622	
Molded, overall	3.4
Core, pcf	2.8
Compressive Strength	
10% deflection, ASTM D-1631	
Parallel, PSI	25.1
Perpendicular, PSI	31.4
Compressive Strength Change	
Mil-P-21929B, % change (after humid aging)	19.03

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. % by Volume	0.076 4.4
Tumbling Friability ASTM C-421, % loss	9.7

### TYPICAL FOAM PROPERTIES (Cont'd)

Closed Cell Content ASTM D-2856, %	83
Compression Set Mil-P-21929B, % loss	0.79
Oil Resistance ASTM C-471 Mil-P-21929B	Pass
Fire Resistance ASTM D-1692 Mil-P-21929B	Pass
Dimensional Stability ASTM D-2126, % volume change	
	<u>@ -20°F @ 158°F @158°F &amp; 100%</u>

RH			
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

### COVERAGE

Theoretical coverage is 2.5 Lbs UI 7500 per cubic foot of space to be filled. (Consult your Unicoat Technical Representative for recommendations).

All technical advice recommendations are rendered by the seller gratis. They are based on technical data which the seller believes to be reliable. And are intended for use by persons having skill and know-how at their own discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use buyer in whole or in part. Such recommendations, technical advice or service are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.

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### CHEMICAL RESISTANCE

UI 7500 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	Fail
• Ethanol	Fail

### APPLICATION

UI 7500 should be applied 1:1 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.

#### Clean-up Solvent:

MEK, Acetone, or DOP

### SAFETY

Consult the Material Safety Data Sheet for this product prior to use.

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