

# AMERICAN COATINGS

## UI 8000 UNICOAT STRIKER PLATES

### Product Data Sheet

#### Description:

A fiberglass reinforced polyester plate used to replace worn or otherwise defective striker plates for support legs in storage tanks with floating roofs.

Usual sizes are 12" x 12" and 1/4" to 3/8" thick, although different sizes can be custom made to order.

#### Specifications:

##### Longitudinal Direction

Ultimate Tensile Strength, PSI (ASTM D638)	30,000
Ultimate Compressive Strength, PSI (ASTM D695)	30,000
Ultimate Flexural Strength, PSI (ASTM D790)	30,000
Tensile Modulus, PSI x 10 <sup>4</sup>	2.5
Compressive Modulus, PSI x 10 <sup>4</sup>	2.5
Flexural Modulus, PSI x 10 <sup>4</sup>	1.6
Ultimate Shear Strength, PSI	5,500
Ultimate Bearing Stress, PSI	30,000
Izod Impact Strength, Ft. Lbs. per inch of notch (ASTM D256) (sample thickness 1/8")	25

##### Electrical

Electrical Strength, short term in oil, 1/8", VPM (ASTM D149)	200
Electrical Strength, short term in oil, KV per inch	35

Dielectric Constant, 60 Hz, (ASTM D150)	5.6
Dissipation Factor, 60 Hz, (ASTM D150)	0.03
Arc Resistance, seconds (ASTM D495)	120

##### Flame Retardant Properties

Flame Resistance, ign/burn, seconds, (FTMS 406-2023)	75/75
Intermittent Flame Test, rating (HLT 15)	100
Flammability Test, average time of burning, 5 seconds, average extent of burning 15mm (ASTM D635)	
Surface Burning Characteristics, maximum, (ASTM E84)	15

##### Transverse Direction

Ultimate Tensile Strength, PSI	7,000
Ultimate Compressive Strength, PSI	15,000
Ultimate Flexural Strength, PSI	10,000
Tensile Modulus, PSI x 10 <sup>4</sup>	0.8
Compressive Modulus, PSI x 10 <sup>4</sup>	1.0
Flexural Modulus, PSI x 10 <sup>4</sup>	0.8
Ultimate Shear Strength, PSI	5,500
Ultimate Bearing Stress, PSI	30,000
Izod Impact Strength, Ft. Lbs. per inch of notch (ASTM D256) (sample thickness 1/8")	4
Barcol Hardness (ASTM D2583-75)	50
Full Section in Bending Modulus of Elasticity, PSI x 10 <sup>4</sup>	2.5

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Tensile Strength, PSI	20,000
Compressive Strength, PSI	20,000
Thermal	

Thermal Coefficient of Expansion, inches/inch/°F (ASTM D696)	$5 \times 10^4$
Thermal Conductivity, BTU per Sq. ft./Ht./°F/In. (ASTM C-1776-76)	4
Specific Heat, BTU/Lb./°F	0.28

Other

Density, Lbs./in <sup>3</sup> (ASTM D792)	0.065
Specific Gravity (ASTM D792)	1.80
Water Absorption, Max % by weight (24 hour immersion) (ASTM D570)	.50

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