

TDT 177-144 RESIN RP 1500 HARDENER

STYRENE-RESISTANT SURFACE COAT

Ren[®] TDT 177-14 resin with RP 1500 hardener is a styrene-resistant epoxy surface coat. Special wear resistant fillers are incorporated to increase the abrasion resistance of the cured surface coat.

MIX RATIO

Resin to Hardener	By Weight: 100 to 10	By Volume: 100 to 15
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TYPICAL HANDLING PROPERTIES*

	<u>ASTM Method</u>	<u>Resin</u>	<u>Hardener</u>	<u>Mixed</u>
Color	Visual	Gray	Amber	Gray
Specific Gravity	D-1963	1.53–1.66	1.02–1.06	
Sag Resistance	D-2730-68			Pass 1/16" Fail 1/8"
Gel Time, 4 fl. oz, minutes	D-2471			60

NOTE: These physical properties are reported as typical test values obtained by our test laboratory. If assistance is needed in establishing product specifications, please consult with our Product Management Department.

RECOMMENDED CURE SCHEDULES

- 77°F (25°C) at 24 hours, plus
150°F (66°C) at 2 hours, plus
200°F (93°C) at 2 hours, plus
250°F (121°C) at 2 hours, plus
300°F (149°C) at 2 hours

TYPICAL CURED PROPERTIES*

	<u>ASTM Method</u>	<u>Cure Value</u>
Density, lb./ft ³ (g/cm ³)	D-792	97 (1.56)
Cubic Inch per Pound		17.8
Hardness, Shore D	D-2240	92
Ultimate Flexural Strength, psi	D-790	12,500
Flexural Modulus, psi	D-790	700,000
Ultimate Tensile Strength, psi	D-638	7,000
Tg by DMA, E", °F(°C)	D-4065	284 (140)
Ultimate Compressive Strength, psi	D-695	28,000
Izod Impact, notched, ft-lb./in	D-256	0.49
Coefficient of Thermal Expansion	D-3386	
		-22 to 86°F, in/in/°F
		-30 to 30°C, in/in/°C
Linear Shrinkage, in/in	D-2566	24.0 x 10 ⁻⁶ 43.2 x 10 ⁻⁶ 0.002

* Tested @ 77°F (25°C) unless otherwise noted.

** Molds are half round steel, 10 inches long, 0.5 inches deep

SAFETY: Do not use or handle this product until the Material Safety Data Sheet has been read and understood.

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