



**Uramine<sup>®</sup> 5851**  
**Epoxy Curing Agent**

**TECHNICAL DATA SHEET**

PROPERTIES	UNIT	STANDARD	VALUE
<b>General</b>			
Type of the product	Modified Nonisocyanate Curing Agent		
Use	Hardener that improves physical properties of hybrid epoxy-urethane coatings - flooring, paints, varnish, etc.		
<b>Typical Physical Properties</b>			
Physical Form	Liquid		
Color	Colorless to yellowish		
Density at 77°F (25°C)	lb/gal (g/cm <sup>3</sup> )		8.4 – 9.5 (1.05 – 1.1)
Viscosity at: <ul style="list-style-type: none"> <li>• +77 (+25) °F (°C)</li> <li>• + 68 (+20) °F (°C)</li> <li>• + 59(+15) °F (°C)</li> </ul> (Brookfield RVDV II, Spindle 29, 100 rpm)	cP (mPa's)	ASTM D2196	200 300 500
Amine Value	(mg KOH/g)		360
Equivalent Wt /(H)			103
Application temperature	°F (°C)		+ 59-77 (+ 15-25)
Flash Point (closed cup)	°F (°C)		> 203 °F (95°C)
Boiling point:	°F (°C)		> 401.5°F (205.3°C)
Melting point:	°F (°C)		< 5°F (-15°C)
Solubility in Water			Miscible
<b>Typical Handling Properties *</b>			
Gel Time (150g mix at 77°F (25°C))	min		20
Thin Film Set Time at 77°F (25°C)	min		90
Tensile strength at break	psi (MPa)	ASTM D638	7,000-9,000 (49-63)
Elongation at break	%	ASTM D638	4-6
Hardness (Shore D)		ASTM D2240	75-80
Abrasion resistance (TABER, wheel C17 1000g), loss of mass	mg/1000 cycles	ASTM D4060	25-30
*Uramine 5851 curing agent formulated with light stable standard Epoxy Resin DGEBA (EEW=190)			
Weight gain at immersion 24h at 77°F (25°C)	%	ASTM D570	

- in water			0.1-0.5
- in Sulfuric acid -10% H <sub>2</sub> SO <sub>4</sub>			0.5-1
Motor oil			No effect
Brake fluid			No effect
Vegetable oil			No effect