



**Uramine<sup>®</sup> 4761**  
**Epoxy Curing Agent**

**TECHNICAL DATA SHEET**

PROPERTIES	UNIT	STANDARD	VALUE
<b>General</b>			
Type of the product	Modified non-isocyanate urethane curing agent		
Use	Epoxy curing agent that improves physical properties of 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 (1.0 – 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, 100rpm)	cP (mPa's)	ASTM D2196	400 750 1000
Amine Value	(mg KOH/g)		490
Equivalent Wt /(H)			57
Application temperature	°F (°C)		+ 59-77 (+ 15-25)
Flash Point (closed cup)	°F (°C)		~ 242.6 (117 )
Boiling point:	°F (°C)		> 476.6°F (247°C)
Melting point:	°F (°C)		~ 50°F (10°C)
Solubility in Water			Miscible
<b>Typical Handling Properties *</b>			
Gel Time (150g mix at 77°F (25°C)	min		60
Thin Film Set Time at 77°F (25°C)	min		120
Tensile strength at break	psi (MPa)	ASTM D638	7,100-10,000 (49-69)
Elongation at break	%	ASTM D638	1.5-3
Hardness (Shore D)		ASTM D2240	75-80
Abrasion resistance (TABER, wheel C17 1000g), loss of mass	mg/1000 cycles	ASTM D4060	25-30
*Uramine 4761 curing agent formulated with light stable Hydrogenated Bisphenol A epoxy resin (EEW=230)			

Weight gain at immersion - in water - Sulfuric acid – 10% H <sub>2</sub> SO <sub>4</sub>	%	ASTM D570	0.1-0.5 0.5-1
Motor oil			No effect
Brake fluid			Gloss reduction
Vegetable oil			No effect