



## Ursamine<sup>®</sup> LP Curing agent

### **Description**

**Ursamine LP** – Nonisocyanate Urethan-syloxane Modified curing agent for Epoxy-amine systems. It's designed for use as a curing agent for liquid compounds in most indoor applications - abrasive, impact and chemical resistant floorings, paints and other coatings.

### **Advantages**

- Decrease Pot Life curing and fast properties development
- Absence of solvents.
- Good chemical resistance;
- Increased excellent adhesion properties;
- High impact and tension strength;
- Excellent hardness;
- High gloss and color retention.
- Increased abrasion resistance;
- Low viscosity;
- Hygienic and simple cleaning.

### **Applications**

- Hardener for application of indoor epoxy –amine systems;
- Additive for other curing agents;
- Civil engineering;
- Increases decorative coating appearance.

### **Storage:**

Keep in a well-ventilated place in tightly sealed containers.

Keep at the temperature not less than 77°F (25°C).

Protect from humidity and frost.

The viscosity increases significantly at low temperature..

Storage life at least 12 month from the date of manufacture in the original sealed container at ambient temperature.

Store away from acids, excessive heat and humidity in closed containers.

### **Handling Precautions**

Refer to the material Safety Data Sheet for Ursamine LP.



## TECHNICAL DATA SHEET

PROPERTIES	UNIT	STANDARD	VALUE
<b>General</b>			
Type of the product	Modified Nonisocyanate Urethan-syloxane Curing Agent		
Use	Hardener that improves physical properties of nano-hybrid coatings - flooring, paints, varnish.		
<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> )		7.6 - 8.4 (0.95 – 1.05)
Viscosity at: • +77 (+25) °F (°C) (Brookfield RVDV II, Spindle 29, 100 rpm)	cP (mPa·s)	ASTM D2196	40-50
Equivalent Wt /(H)			71
Application temperature	°F (°C)		+ 59-77 (+ 15-25)
Flash Point (closed cup)	°F (°C)		~ 233°F (112°C)
Boiling point:	°F (°C)		~ 476°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		100-120
Thin Film Set Time at 77°F (25°C)	min		150-180
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	80-85
Abrasion resistance (TABER, wheel C17 1000g), loss of mass	mg/1000 cycles	ASTM D4060	10-20
*Ursamine LP curing agent formulated with light stable standard Epoxy Resin DGEBA (EEW=190)			
Weight gain at immersion 24h at 77°F (25°C) - in water - in Sulfuric acid -10% H <sub>2</sub> SO <sub>4</sub> - in Sodium Hydroxide -10% NaOH	%	ASTM D570	0.1-0.5 0.1-0.5 0.1-0.5
Motor oil			No effect
Brake fluid			No effect
Vegetable oil			No effect