Clearlink® 1080
Aliphatic Amine Chain Extender

DESCRIPTION

Clearlink® 1080 is an aliphatic diamine chain extender used with aliphatic isocyanates to produce a range of UV light-stable polymers.

PERFORMANCE

The additional urea groups formed by reacting Clearlink® 1080 with aliphatic isocyanate groups typically improve the strength and heat resistance of the final polymer. Polyurethanes and polyureas cured with Clearlink® 1080 are light-stable. Clearlink® 1080 offers substantially lower reactivity than other commercially available aliphatic diamines.

Performance Attributes:
- Slow reactivity compared with other aliphatic diamines
- Compatible with a wide range of polyols, co-curatives and other polyurethane chemicals
- Low moisture sensitivity
- Low toxicity – Ames negative

APPLICATIONS

Clearlink® 1080 is a liquid aliphatic chain extender for light-stable or color-critical aliphatic polyurea spray and hand-applied coatings. It provides considerable latitude for cure-rate control without altering formulation color and it is compatible with a wide range of polyols, co-curatives and other polyurethane and polyurea chemicals.

Clearlink® 1080 extends pot life, allowing time for coatings to flow, adhere and develop smooth finishes. Coatings cured with Clearlink® 1080 are tough and extremely light-stable in harsh environments.

HOW TO USE

Typical use levels in sprayed polyurea coatings range from 5% to 10% by weight.

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Clear, colorless liquid
Specific gravity @ 20 °C (68 °F)	0.86
Flash point, PMCC, °C (°F), IF	104 (219)
Viscosity @ 40 °C (104°F), cSt	8
Molecular weight	282
Equivalent weight	141

SAFETY AND HANDLING

Please refer to the current Material Safety Data Sheet for detailed safety, handling and toxicity information.

TYPICAL SHELF LIFE

2 years

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