Technical Product Bulletin

POLYAMIDE RESIN CURING AGENT

PRODUCT DESCRIPTION

VERSAMID 140 is a versatile, reactive polyamide resin designed for use in epoxy-based systems. It serves as a curing agent for epoxy resins in applications such as coatings, adhesives, and composites. This resin provides excellent adhesion, flexibility, and chemical resistance, making it suitable for protective coatings and structural adhesives.

VERSAMID 140 offers a balanced curing profile with good pot life and fast cure times. It forms tough, durable films that exhibit superior corrosion resistance and mechanical properties. The resin is particularly effective in two-component epoxy formulations for industrial and marine environments.

This polyamide resin bonds well to various substrates including metals, concrete, wood, and plastics. It is commonly used in floor coatings, tank linings, and maintenance paints where durability and performance under harsh conditions are required.

KEY SPECIFIED PROPERTIES

Appearance	Amber Liquid
Color, Gardner	7 max
Viscosity (Thermosel) at 25°C, cP	8,000 - 12,000
Amine Value, mg KOH/g	370 - 400

TYPICAL PROPERTIES

Active Content	100%
GEHC	6
Specific Gravity at 25°C	0.97
Flash Point	185°C

Note: Please use theoretical H-equivalent as indicative information, as the average H-equivalent could be significantly different due to polymer development (molecular weight distribution) and the purity of commercial amines. These typical values should not be interpreted as specifications.

FEATURES

- Excellent adhesion to a wide range of substrates
- Superior flexibility and toughness
- Good chemical and corrosion resistance
- Balanced curing profile with extended pot life
- Fast cure times under appropriate conditions
- High mechanical strength and durability
- FDA compliant for indirect food contact applications when used with appropriate epoxy resins
- Low toxicity and environmentally friendly formulation
- Excellent compatibility with various epoxy systems

APPLICATIONS

- Protective coatings for industrial and marine environments
- Structural adhesives for metal, concrete, and wood
- Floor coatings requiring durability and chemical resistance
- Tank linings for storage and processing equipment
- Maintenance paints for harsh conditions
- Composite manufacturing for enhanced performance
- Food processing equipment coatings (FDA compliant formulations)
- Waterproofing and sealing applications

CHEMICAL RESISTANT COATING INFORMATION

VERSAMID 140-based coatings exhibit exceptional resistance to a wide range of chemicals, including:

- Acids (e.g., sulfuric acid, hydrochloric acid)
- Alkalis (e.g., sodium hydroxide)
- Solvents (e.g., xylene, toluene)
- Salts and brine solutions
- Petroleum products (e.g., gasoline, oils)

These coatings maintain integrity and performance when exposed to continuous immersion or splash exposure, making them ideal for chemical processing plants, oil refineries, and marine structures.

PROCESSING

	190 EEW Liquid Epoxy	**475 EEW Solid Epoxy**
Pot-life Hours	50-70 phr	40% NV (20-30 phr)
Max Exotherm Peak	2 hours (200 µm wet)	1-2 days (200 µm wet)
Tack Free Time, Hours	6 hours (200 µm wet)	2 days (200 µm wet)
Minimum Application Temperature	15°C	15°C

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet (SDS).

HOW TO USE

1. Carefully clean and prepare all surfaces to be coated or bonded.
2. Accurately measure and mix the epoxy resin with VERSAMID 140 according to the recommended ratios.
3. Apply the mixture promptly to the prepared surfaces using appropriate application methods.
4. Allow sufficient curing time based on temperature and humidity conditions; elevated temperatures can accelerate curing.

AVAILABILITY

VERSAMID 140 is available in various package sizes including drums, pails, and smaller containers.