

VERSAMID® 125 Polyamide Curing Agent

Product Description

VERSAMID® 125 curing agent is a medium viscosity, reactive polyamide based on dimerized fatty acid and polyamines designed for use with solid or liquid epoxy resins for tough, chemical-resistant thermoset coating applications that cure at room temperature. This resin is also useful in adhesive applications. VERSAMID® 125 curing agent and epoxy resin systems are generally harder than, and cure more rapidly than, VERSAMID® 140 systems. It is often blended with VERSAMID® G 250 US, a fatty amido amine resin, to provide a range of viscosities, cure speeds and resistance properties.

Applications

- Maintenance coating applications
- Primers
- Enamel paint formulations

Features

- Excellent chemical resistance
- Excellent adhesion

Key Specified Properties

Property	Value
Color, Gardner	8 max
Viscosity (Brookfield) at 75 °C, cP	650 - 950 cP
Amine value, mg KOH/g	330 - 360

Typical Properties

Property	Value
AHEW	103
Density, lb/gal	8.1
Flash point (Seta)	>200°F

Processing

Mix ratio with 190 EEW liquid epoxy is 54 phr. Due to chemical reaction, Versamid® 125 and epoxy resins should not be mixed until just prior to use.

Typical Properties of a VERSAMID® 125 Cured Coating

Property	Value
Tack-free Time	5 hours
Through-cure time	12 hours
Pot Life	2 hours
Gel Time	129 minutes

*Cured with 190 EEW liquid epoxy resin

Typical Cured Resin Properties

Property	Value
Glass transition temp (Tg)	84°C
Tensile strength	6,100 psi
Elongation	5%
Flexural modulus	239,000 psi
Compressive strength	8,500 psi

*Cured with 190 EEW liquid epoxy resin for 7 days at 25°C

Typical Chemical Resistance Properties of Unfilled Castings

Chemical	% weight gain
10% Acetic acid	6.93%
10% Hydrochloric acid	0.80%
10% Sulfuric acid	1.24%
10% Sodium Hydroxide	0.57%
Methyl ethyl ketone	Destroyed
Xylene	15.47%
Ethanol	6.71%

*Percent weight gain after a 7-day cure at 25°C followed by a 21-day immersion at 25°C

Advanced Materials

Technical Datasheet

General Purpose, White Gloss Enamel Formula, Room Temperature Cure

Part A	Pounds	Gallons
Mix the following materials:		
Epoxy resin solution	360.0	40.0
Xylene	36.0	5.0
Propylene glycol methyl ether acetate	40.2	5.0
Mix the following materials separate from Part A:		
Part B		
VERSAMID® 125 (mix prior to use)	121.5	15.0
Calcium Carbonate	150.0	6.6
TiO ₂	175.0	4.9
Bentonite clay agent	8.0	0.5
Xylene	108.0	15.0
Propylene glycol methyl ether	62.0	8.0
Total	1060.7	100.0

Thinners	Brush %	Spray %
MIBK	33	45
Xylene	33	--
Toluene	--	50
Propylene glycol methyl ether	34	3
Dipropylene glycol methyl ether	--	2
Total	100	100

Formulation Attributes	
Viscosity, combined (Krebs)	71 KU
Weight per gallon, combined	10.6 lb/gal
Pigment:Binder ratio	1:1.2
PVC	21.8%
Solids	68.2%
Tack free (typical)	4-6 hours
Hard dry (typical)	Overnight
Full resistance properties (typical)	7 days

Storage

VERSAMID® 125 curing agent should be stored in a dry place, in its sealed original container, at temperatures between **2°C to 40°C (35.6°F to 104°F)**. Under these storage conditions the shelf life is **24 months** from date of manufacture. The product should not be exposed to direct sunlight.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to SDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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