

VERSAMID® 100 T-60 Polyamide Curing Agent

Product Description

VERSAMID® 100 T-60 is a toluene solution of a semi-solid, reactive polyamide resin based on dimerized fatty acid and polyamines designed for use with solid or liquid epoxy resins for room temperature cure thermoset coating applications. VERSAMID® 100 T-60 and epoxy resin systems provide long pot lives and fast tack-free formulations. Formulations based on this resin system cure less quickly than VERSAMID® 115 systems and exhibit somewhat lower chemical and solvent resistance than VERSAMID® 125 coating systems.

Applications

- Maintenance coating
- Primers
- Enamel paint formulations

Features

- Long pot life with short tack-free times
- High equivalent weight
- FDA compliant*

Key Specified Properties

| Property | Value |
|-------------------------------------|---------------|
| Color, Gardner, max | 9 |
| Viscosity (Brookfield) at 75 °C, cP | 1,900 - 2,900 |
| Amine value, mg KOH/g | 50 - 58 |

Typical Properties

| Property | Value |
|-----------------------|-------------|
| AHEW | 875 |
| Amine value, mg KOH/g | 55 |
| Viscosity at 25C, cP | 2,200 |
| Gardner color | 6 |
| Solids | 60% |
| Solvents | 40% Toluene |
| Density, lb/gal | 7.7 |
| Flash point (Seta) | 43°F |

Processing

Mix ratio with 525 EEW solid epoxy is 167 phr. Due to chemical reaction, VERSAMID® 100 T-60 and epoxy resins should not be mixed until just prior to use.

Typical Chemical Resistance Properties (24 hour 5 spot test)

| Chemical | Results |
|-----------------------|--------------------------|
| 10% Acetic acid | Softening, blistering |
| 10% Hydrochloric acid | Softening, discoloration |
| 10% Sulfuric acid | Softening, discoloration |
| 10% Sodium Hydroxide | No effect |
| Methyl ethyl ketone | Softening, blistering |
| Xylene | Softening, loss of gloss |
| Ethanol | Slight softening |
| Distilled Water | Slight softening |

White Gloss Enamel Formula

| Part A | Pounds | Gallons |
|--|----------------|--------------|
| Mix the following materials: | | |
| Epoxy resin solution | 234.4 | 25.8 |
| TiO ₂ | 281.2 | 8.7 |
| Hydrous magnesium silicate, ultrafine talc | 70.3 | 3.7 |
| Xylene | 44.9 | 6.2 |
| | | |
| Disperse to 4 Hegman, then add: | | |
| Xylene | 61.0 | 8.4 |
| Methyl isobutyl ketone | 36.1 | 5.4 |
| Acetate ester solvent | 17.7 | 2.4 |
| Dehydran® 1208 | 2.6 | 0.4 |
| | | |
| Part B | | |
| Versamid® 100 T-60 (mix prior to use) | 293.0 | 39.0 |
| Total | 1,041.2 | 100.0 |

Note: Allow 15 – 30 minutes induction time before application. Reduce viscosity as needed after induction time.

Formulation attributes

| | |
|--------------------------------|---------------|
| Viscosity, Component I (Krebs) | 75 KU |
| Viscosity, combined (Krebs) | 93 KU |
| Weight per gallon, Component I | 12.48 lbs/gal |
| Weight per gallon, combined | 10.52 lbs/gal |
| Pigment:Binder ratio | 1:1 |
| VOC (Calculated) | 3.37 lbs/gal |
| Total solids (coatings) | 67.58 wt % |
| Total solids (volume) | 51.92 |
| Pencil hardness | HB |
| Conical mandrel | Pass |
| Crosshatch adhesion | 4B |
| Direct impact | 40 |
| Reverse impact | < 5 |
| Gloss 60° | 95 |
| MEK resistance | > 200 |
| Tack free (B-K Recorder) | 5 ½ hours |
| Through cure (B-K Recorder) | 13 hours |
| Pot life | > 6 hours |

Storage

VERSAMID® 100 T-60 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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