

Ancamide[®] 220 Curing Agent

DESCRIPTION

Ancamide 220 curing agent is one in a series of standard reactive polyamides for use in the curing of epoxy resins. It has been designed particularly for use in solvent-based surface coatings.

Evonik also offers Ancamide 221 curing agent which is similar to Ancamide 220 in performance. Ancamide 221 may be a more cost effective alternative for your formulation.

ADVANTAGES

- Good color and light stability
- Good chemical resistance
- Compatible with a wide range of solvents, including those generally used in epoxy resinbased coatings
- Complies with FDA 21 CFR 175.300, and 175.105

APPLICATIONS

- Solvent-based maintenance coatings
- Primers, sealers and coatings for concrete

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamide 220 curing agent.

TYPICAL CURE SCHEDULE

2 to 7 days at ambient temperature. Films can be force-dried or baked to accelerate cure. Cure can also be accelerated by the addition of 2–3 phr of Ancamine[®] K54 curing agent.

CHEMICAL RESISTANCE

Chemical resistance, particularly against water and aqueous media, is strongly influenced by loading of Ancamide 220 curing agent and the choice of solvents. With correct loading and suitable solvent blends, resistance is good to excellent against water and alkali solutions, alcohols, hydrocarbons and certain chlorinated hydrocarbons; acid resistance is moderate to poor.

TABLE 1: TYPICAL PROPERTIES

Appearance	Clear, amber liquid
Color (Gardner) ¹	7
Viscosity @ 77°F (cP) ²	330,000
Specific Gravity @ 77°F	0.97
Amine Value (mg KOH/g)	245
Flash Point (closed cup) (°F)	388
Equivalent Wt/{H}	185
Recommended Use Level with liquid resin (phr, EEW=190)	90-100
with solid resin (phr, EEW=510)	35-10

TABLE 2: TYPICAL HANDLING PROPERTIES*

Gel Time (150g mix @ 77°F— with liquid resin, EEW=190) (min)	260
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TABLE 3: TYPICAL PERFORMANCE*

(Cured 7 days @ ambient temp.)	
Bond Strength (mild steel to mild steel) (psi)	1,960

¹ ASTM D1544-80

² Brookfield viscosity, ASTM D445-83

* Ancamide 220 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

Epoxy Curing Agents and Modifiers

Ancamide[®] 220 Curing Agent

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