Product information

ANCAMIDE® 2050

Curing Agent

DESCRIPTION

Ancamide 2050 is an accelerated polyamide adduct designed for use with liquid epoxy resin in the formulation of high solids coatings with low volatile (solvent) contents. The non-critical loading of between 70 and 100 phr, including 1:1 by volume with standard liquid epoxy resin, allows at 70 phr for optimum chemical resistance and pot-life, and at 100 phr for enhanced flexibility and impact resistance.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Amber Liquid		
Colour	12	Gardner	ASTM D 1544-80
Viscosity @ 25°C	2000-5000	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	210-230	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	1.01		
Equivalent	150	Wt/{H}	
Recommended use Level	70-100	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

- Good through cure and appearance at 10°C
- Good corrosion resistance
- Low viscosity
- Zero induction time at ambient temperature
- High-gloss finish
- Non-critical loading (70-100 phr)

APPLICATIONS

- High-solids marine and maintenance coatings
- High-solids lining coatings
- High-solids primers and coatings for concrete
- Sealants and putties

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SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamide 2050 curing agent.

TYPICAL HANDLING PROPERTIES (70 PHR)*

Property	Value	Unit	Method
Mixed Viscosity at 25°C	6,400	mPa.s	Brookfield RVTD, Spindle 4
Gel Time (150g mix at 25°C)	140	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	35	°C	
Thin Film Set Time 25°C	7	h	BK Drying Recorder Phase III

TYPICAL HANDLING PROPERTIES (100 PHR)*

Property	Value	Unit	Method
Mixed Viscosity at 25°C	5,000	mPa.s	Brookfield RVTD, Spindle 4
Gel Time (150g mix at 25°C)	80	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	40	°C	
Thin Film Set Time 25°C	6	h	BK Drying Recorder Phase III
Typical cure schedule	2-7	days	

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Direct Impact Resistance	180	cm.kg	
Reverse Impact Resistance	180	cm.kg	
Heat Distortion Temperature	42	°C	ASTM D648

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