**Product information** 

# ANCAMIDE® 400

# **Curing Agent**

#### **DESCRIPTION**

Ancamide 400 is a special polyamide curing agent for liquid epoxy resin. It has a similar performance to Ancamide 350A but with a much lower viscosity and higher amine value. This versatile curing agent cures relatively rapidly and has excellent compatibility with bis F and conventional epoxy resins, has a pale colour and good colour stability. When blended with cycloaliphatic polyamines good hot water resistance is attainable. Applications for Ancamide 400 include coatings, floorings, adhesives (with Goodrich ATBN modifiers) sealants, putties, grouts and electrical potting.

Good chemical resistance against water and most aqueous media except acids; moderate to poor against organic solvents.

# **TYPICAL PROPERTIES**

Property	Value	Unit	Method
Appearance	Amber Liquid		
Colour	<13	Gardner	ASTM D 1544-80
Viscosity @ 25°C	1,200-2,000	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	380-430	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	0.98	g/ml	
Equivalent	95	Wt/{H}	
Recommended use Level	50	PHR	With Bisphenol A diglycidyl ether (EEW=190)
Flash Point (closed cup)	>160	°C	

### **ADVANTAGES**

- Low viscosity polyamide
- Moderately fast cure
- No induction time needed



# **APPLICATIONS**

- Coatings
- Adhesives
- Sealants and Putties
- Electrical potting compounds
- Grouts (especially water-wipeable)

# **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 400 curing agent.

# **TYPICAL HANDLING PROPERTIES**

Property	Value	Unit	Method
Gel Time (150g mix at 25°C)	65-80	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	105	°C	
Time to Peak Exotherm	117	min	
Thin Film Set Time 25°C	9	h	BK Drying Recorder Phase III

# **TYPICAL CURE SCHEDULE**

(i) 7 Days at Ambient Temperature

(ii) 2 Hours at 60°C plus 1 h at 100°C



#### TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method	
Following Cure Schedule (ii)				
Barcol Hardness (model GYZJ935)	69			
Bond Strength (mild steel)	12	MPa		
Tensile Strength	32	MPa	ISO 527	
Tensile Modulus	2.5	GPa	ISO 527	
Flexural Strength	53	MPa	ISO 178	
Flexural Modulus	1.77	GPa	ISO 178	
Elongation Break	1.44	%		
Heat Distortion Temperature	46	°C	ASTM D648	

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