

Product information

ANCAMINE® 2927

Curing Agent

DESCRIPTION

Ancamine® 2927 curing agent is designed to have a good balance of long latency and relatively low temperature cure with liquid epoxy resin. The low viscosity enhances the felt wetting, minimizes material waste and improves overall throughput. It is recommended for use in cured-in-place-pipe and composites applications.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Amber liquid		
Colour	≤ 12	Gardner	ASTM D 1544
Viscosity @ 25°C	100-220	mPa.s	Brookfield DV2T, spindle SC4-21
Thermal Performance (Tg)	65	°C	By DSC - Isothermal Cure 75°C-2 hours
Specific Gravity @ 25°C	0.97	g/cm ³	
Equivalent	28	Wt/[H]	
Recommended use Level	15	PHR	With bisphenol- A based epoxy resin (EEW=190)
Mix Viscosity @ 30 °C	2,400	mPa.s	
Time to 10,000 mPa.s @ 30 °C	873	min	

*(EEW=190)

ADVANTAGES

- Long pot life
- Excellent adhesion
- Good mechanical properties
- Low viscosity
- Solvent free

APPLICATIONS

- Cured-In-Place Pipe
- Composites – Filament winding, VARTM

TYPICAL CURE SCHEDULE

2 hrs @ 167°F / 75°C or 3 hrs @ 150°F / 65°C
Induction time is important to consider. See page 3

MECHANICAL PERFORMANCE – CAST PANEL *

Property	Value	Unit	Method
Formulation	A		
Flexural Strength	17,018	psi	ASTM D790
Flexural Modulus	430	ksi	
Tensile Strength	10,800	psi	ASTM D638
Tensile Modulus	435	ksi	
Tensile Elongation @ Break	3.8	%	

*Cure schedule for cast panels 75°C – 2 hours

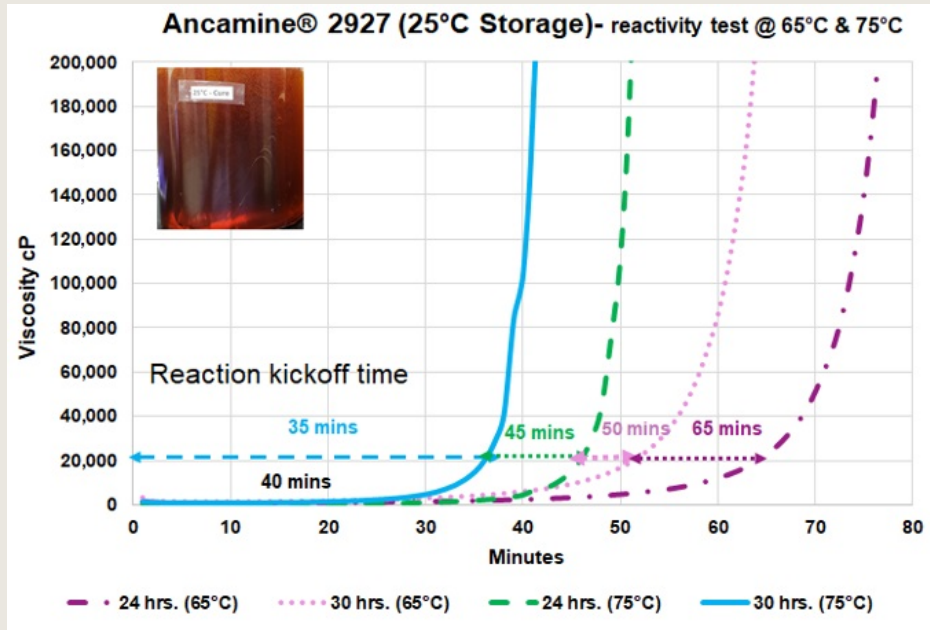
STORAGE LIFE

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.

HANDLING PRECAUTIONS

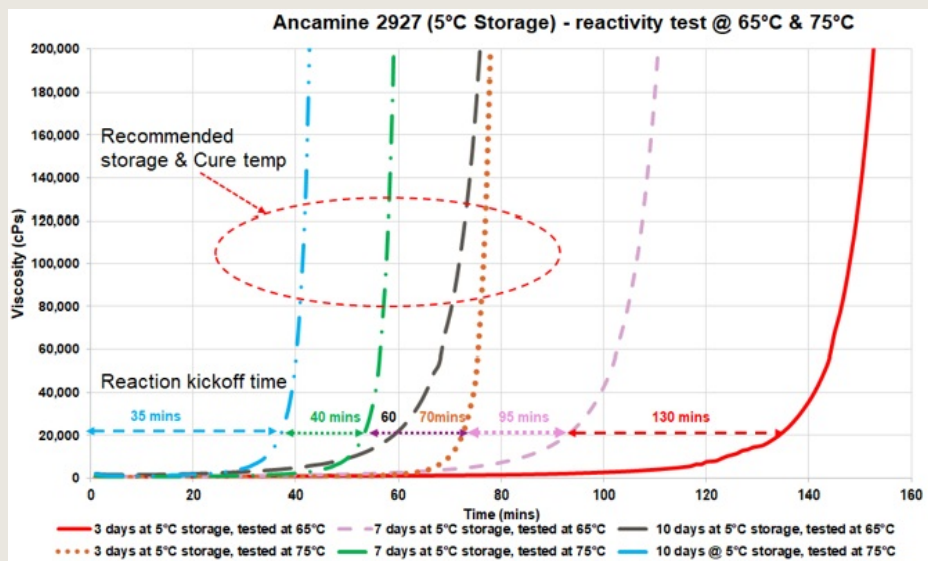
Refer to Ancamine® 2927 Material Safety Data Sheet





*Figure 1. Reactivity profile at different temperature and time (24 and 30h). (EEW190): Ancamine® 2927

Ten pounds of formulation “A” was mixed in a bucket and held at 25°C, to understand the stability of the formulation in the presence of a larger mass. Samples were taken after 24 and 30h from the bucket to run reactivity at 65°C and 75°C. Figure 1 shows the reaction kickoff time at different induction times and temperatures.



*Figure 2. Reactivity profile at different temperature and time (3,7 and 10d). (EEW190): Ancamine® 2927

Figure 2 shows the reaction kickoff times at when bucket was stored at 5°C. Samples were taken after 3, 7 and 10 days from the bucket run reactivity at 65°C and 75°C.

The induction time is defined by the storage temperature. Lower the storage temperature longer the induction time. The users need to identify the ideal storage and cure temperature parameters to minimize the reaction kickoff time and resin dripping from the felt. The users have the flexibility to select time and temperature that suit their needs.

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