Product information

ANQUAMINE® 670

Curing Agent

DESCRIPTION

Anquamine 670 is a low viscosity modified amine adduct dissolved in water. The epoxy curing agent has the ability to emulsify liquid epoxy resins and the resulting, emulsified system is ideal for use in water based epoxy coatings.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Light amber liquid		
Colour	max 6	Gardner	ASTM D 1544-80
Viscosity @ 25°C	10000-30000	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	190-220	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 25°C	1.05	g/ml	
Total Solids Content	63-67	wt %	
Equivalent Wt/{H}	220		
Recommended use Level	115	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

- Good colour and colour stability
- Fast dry
- Good hardness development
- Good flexibility
- No flash rusting
- Visible end of pot life
- Cement stable
- No free amine content

SHELF LIFE

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

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STORAGE AND HANDLING

Refer to the Safety Data Sheet for Anquamine 670 curing agent.

APPLICATIONS

Anquamine 670 provides excellent adhesion to a range of substrates and therefore can be used in a wide variety of coatings applications. In particular, in applications where low colour and good colour stability is important. It also offers good film hardness with flexibility — a good combination for many coatings applications. Furthermore, initial tests (still ongoing) indicate that Anquamine 670 will also offer good water-resistance in anti-corrosive applications:

- Institutional Coatings on concrete e.g. hospitals, schools,kitchens
- High-gloss top-coats and mid-coats
- Wall and floor coatings and primers
- Polymer modified concrete

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	
Pot Life @ 20°C	1 - 2	h	With Bisphenol A diglycidyl ether (EEW=190)
Thin Film Set Time			BK Drying Recorder; With Epires ER8 (EEW=195)
Phase I @ 20°C	2.0	h	
Phase II @ 20°C	4.5	h	
Phase III @ 20°C	7.0	h	
Persoz Hardness			With Epires ER8 (EEW=195)
1 day @ 20°C	95		
7 days @ 20°C	220		
14 days @ 20°C	285		

TYPICAL PERFORMANCE PROPERTIES

Typical cure schedule: 2-7 days

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EVONIK OPERATIONS GMBH
Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers
Product Information: APCSE@evonik.com
Sample Request: APCSE@evonik.com

EVONIK CORPORATION
Business Line Crosslinkers
7001 Hamilton Boulevard
Trexlertown, PA 18087
USA

CrosslinkersProdinfo@evonik.com
Crosslinkers-Samples@evonik.com

EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.
Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China
CL-Asiainfo@evonik.com
CL-Asiainfo@evonik.com

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