

Cardolite® NX-5198

Epoxy Curing Agent

Technical Datasheet

DESCRIPTION

Cardolite NX-5198 is a very low viscosity, solvent and benzyl alcohol free phenalkamine curing agent suitable for epoxy coating applications protecting concrete and metal substrates. Exhibits excellent rapid cure properties, even at low temperatures, and provides excellent adhesion on wet or otherwise unprepared surfaces and green concrete. While designed primarily for flooring applications, this curing agent can also be used in anti-corrosive metal coatings.

PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Color (Gardner)	≤ 14	ASTM D1544
Viscosity @ 25°C (cPs)	80 - 200	ASTM D2196
Amine Value (mg KOH/g)	270 - 320	ASTM D2074
Solids (% weight)	93 - 97	ASTM D2369-98

PROPERTY	TYPICAL VALUE	TEST METHOD
Appearance	Orange color liquid	Visual
Density @ 25°C (kg/L) (lbs/gal)	0.95 7.93	ASTM D1475
Theoretical Active Hydrogen Equivalent (AHEW) ¹	179	Calculated
Flash point	84°C / 183°F	ASTM D93
Recommended Use Level (phr, EEW 190)	94	-
Shelf Life (Months)	12	-

Typical properties are not to be construed as specifications

¹ Based on total product weight

APPLICATIONS

Cardolite NX-5198 is usable in solvent free or high solids surface tolerant coatings over concrete or metal substrates, such as floors, tanks, secondary containment, pipes and general marine structures. This product's very low viscosity gives it good wetting and leveling properties, and its fast cure and good hardness make it ideal for applications requiring fast return to service. Its ability to cure over a wide range and non-critical mix ratio can bring coatings broad application latitude

ADVANTAGES

- Excellent combination of rapid cure and good pot-life at both ambient and low (<5°C/40°C) temperatures
- Continues to chemically crosslink at very low temperatures (0°C/32°C)
- Good wetting and adhesion to poorly prepared surfaces and green concrete
- Good leveling properties
- Moisture tolerant during cure
- Excellent early water resistance
- Very good chemical resistance
- Good flexibility
- Compatibility with most epoxy resins, solvents and their blends
- Superior corrosion resistance mitigating the need for anti-corrosion pigments
- Non-critical mix ratio
- No induction time required
- Non-toxic
- Solvent and benzyl alcohol free
- Based from natural, renewable, non-food chain raw material feedstock

CURE PROPERTIES

	FORMULATION	TEST METHOD
Liquid Epoxy Resin (pbw, EEW 190)	100	
Cardolite NX-5198 (pbw)	94	
Gel time, 50 g @ 25°C (min)	20	NTM-15
Thin film dry times, 8 mils (200 micron)		
@ 25°C (77°F) (hrs hard/through)	2.4	ASTM D5895
@ 5°C (41°F) (hrs hard/through)	13	ASTM D5895

REGULATORY STATUS

Please refer to the material safety data sheet (MSDS). Specific information regarding chemical inventory listing can be obtained from your local sales representative.

SAFETY PRECAUTIONS

Please refer to the material safety data sheet (MSDS). Copies of the MSDS can be requested on the Cardolite website or via your local sales representative.

STABILITY AND STORAGE

Cardolite products may absorb moisture and carbon dioxide when left in open containers, which could result in increased viscosity, discoloration, reduction of reactivity, and/or crystallization of the products. These products should be kept tightly sealed in their original containers when not in use, and stored in a cool, dry place.

CONTACT INFORMATION



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