## DESCRIPTION

Cardolite NX-2018 is a 75% solids, low viscosity, cost effective adducted phenalkamine curing agent designed for medium and high solids epoxy coating applications. This curing agent has very fast cure even at very low temperatures, and can provide excellent adhesion on difficult substrates, such as an inorganic zinc primer and degreased galvanized steel. Film quality of coatings using this curing agent is excellent, showing no blush even at low temperatures and high humidity. Like other Cardolite phenalkamines, this curing agent has good adhesion on wet or otherwise unprepared surfaces, and can provide outstanding water resistance and corrosion protection.

## PROPERTIES

SPECIFICATION	Test Method
≤ 17	ASTM D1544
6,000 - 12,000	ASTM D2196
205 - 235	ASTM D2074
74 - 76	ASTM D2369-98
TYPICAL VALUE	Test Method
Orange brown liquid	Visual
151	Calculated
0.99 8.26	ASTM D1475
32°C / 90°F	ASTM D93
70 - 90	-
12	
	≤ 17 6,000 - 12,000 205 - 235 74 - 76 <b>TYPICAL VALUE</b> Orange brown liquid 151 0.99 8.26 32°C / 90°F

Typical properties are not to be construed as specifications

<sup>1</sup>Based on total product weight

## **APPLICATIONS**

Cardolite NX-2018 is suitable for cost sensitive fast curing medium and high solids surface tolerant marine, industrial, and protective coatings. This product's fast cure and good hardness make it ideal for applications requiring fast return to service or multiple coats over a short period of time. It can be used for coating applications under cold and humid conditions, even over damp and poorly prepared surfaces. Good flexibility and adhesion on various metal/primed substrates make this curing agent especially suitable for primers of marine, transportation, and general industrial equipment. Its ability to cure quickly over a wide temperature range, including below 0°C, combined with a good pot life at room temperature brings coatings based on this curing agent broad application latitude and good workability.

## **A**DVANTAGES

- Excellent combination of rapid cure and long pot life at both ambient and low (<5°C/40°F) temperatures</li>
- Continues to chemically crosslink at very low temperatures (<0°C/32°F)
- Good adhesion to poorly prepared surfaces
- Good adhesion to difficult substrates
- Moisture tolerant during cure
- Excellent early water resistance
- Good chemical resistance

- Very good flexibility
- Compatible with most epoxy resins, solvents and their blends
- Superior corrosion resistance mitigating the need for anticorrosion pigments
- Blush-free surface at extreme conditions
- Non-critical mix ratio
- No induction time required
- Non-toxic
- Based from natural, renewable, non-food chain raw material feedstock

	FORMULATION	TEST METHOD
Liquid Epoxy Resin (pbw, EEW 190)	100	
Cardolite NX-2018 (pbw)	79	
Mix viscosity @ 25°C (cPs)	5,055	
Gel time, 50 g @ 25°C (min)	55 - 80	NTM-15
Thin film dry times, 8 mils (200 micron)		
@ 25°C (77°F) (hrs hard/through)	3 / 5	ASTM D5895
@ 5°C (41°F) (hrs hard/through)	9 / 14	ASTM D5895
@ 0°C (32°F) (hrs hard/through)	14 / 18	ASTM D5895
Film appearance @ 10°C, 92% RH	Clear	Visual

#### **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**



Cardolite Corporation 140 Wharton Road Bristol, PA 19007 United States of America

Cardolite Specialty Chemicals Europe NV Wijmenstraat 21K / 2 B-9030 Mariakerke (Gent) Belgium

T: +32 (0) 92658826

Cardolite Specialty Chemicals India LLP Plot No. IP-1 & IP-2, Mangalore Special Economic Zone Bajpe, Mangalore 574 142 India

T: + 91 (0) 824 2888 300

http://www.cardolite.com

Cardolite Chemical Zhuhai Ltd. 1248 Ninth Shihua Road Gaolan Port Economic Zone Zhuhai, Guangdong 519050 P.R. China

T: +86-756-726-9066

T: +1-800-322-7365

# **DISCLAIMER & COPYRIGHT**

All statements, technical information and recommendations contained herein are based on tests Cardolite believes to be reliable, but the accuracy or completeness thereof is not guaranteed. Actual test method procedures may differ from listed standards; major differences are noted. Limitation of liability and remedy: Purchase or use of these products constitutes an agreement with seller and manufacturer that, if the product proves to be defective or unsuitable, seller's and manufacturer's liability and the exclusive remedy, regardless of tort or contract theory or of incidental or consequential damages shall be to receive, at seller's or manufacturer's option, an equivalent quantity of replacement product or a refund of the purchase price. This datasheet is copyrighted to Cardolite Corporation and may be reproduced but not altered in any way.