

# Cardolite® NC-562

## Epoxy Curing Agent

### Technical Datasheet

#### DESCRIPTION

Cardolite® NC-562 is an epoxy resin hardener designed for rapid cure, even at low temperatures, with a workable pot-life and the ability to resist moisture during cure. Multiple coats per day are feasible at temperatures below 0°C. The product provides good corrosion and water resistance properties as well as adhesion to difficult substrates like inorganic zinc primers. Cardolite® NC-562 is therefore an ideal solution for general purpose industrial epoxy primers.

#### TYPICAL PROPERTIES

	TYPICAL VALUE	SPECIFICATION
Viscosity @ 25°C (cPs)	1300	300-2300
Amine Value (mg KOH/g)	185	159-211
Active Hydrogen equivalent (AHEW)	174	-
Flash point (closed cup)	>32°C/90°F	-
Density @ 25°C lbs/gal (kg/l)	8.05 (0.96)	-
Appearance	Orange brown liquid	
Color (Gardner)	14	16 max
% Solids (1 hr @ 105°C)	65	63-67
Recommended PHR (liquid epoxy resin, EEW=190)	100	-

#### APPLICATIONS

Cardolite® NC-562 is suitable for fast setting medium solids industrial and marine coatings for use under extreme conditions or multiple layers per day.

#### ADVANTAGES

- Excellent combination of rapid cure and long pot-life at both ambient and low (<40°F) temperatures
- Cure below 0°C
- Non critical mix ratio
- Moisture tolerant during cure
- Outstanding chemical resistance
- Early recoat
- Based from natural renewable raw material feedstock



## CURE PROPERTIES

FORMULATION	A
Liquid Epoxy Resin (EEW 190) (pbw)	100
Cardolite® NC-562 (pbw)	100
Mix viscosity @ 21°C (cPs)	1700
Gel time, 100 g @ 25°C (min)	100
Thin film set times, 8 mils (200micron)	
@ 75°F (24°C) (hrs)	4
@ 42°F (5°C) (hrs)	9
@ 32°F (0°C) (hrs)	17
Cure rate / Film appearance @ 42°F (5°C) & 100% RH	Not affected / clear

## APPROVALS AND REGULATORY STATUS

TSCA, EINECS

## SAFETY PRECAUTIONS

Please refer to the material safety data sheet (MSDS).

## STORAGE & STABILITY

Cardolite® Epoxy curing agents will absorb moisture and carbon dioxide when left in open containers. This may result in increased viscosity and some crystallization of the products. Therefore, all containers of these products should be kept tightly closed when not in use and stored inside in a cool, dry place. Properly protected from moisture and air, this product has a shelf life of 12 months.

## CONTACT INFORMATION



**Cardolite**

The World Quality Leader in Cashew Liquid Technology

Cardolite Corporation  
500 Doremus Avenue  
Newark, NJ 07105  
United States of America

T: +1-973-344-5015  
F: +1-973-344-1197  
<http://www.cardolite.com>

Cardolite Europe N.V.  
Offerlaan 116-118  
B 9000 Gent  
Belgium

T: +32-(9)-265-8820  
F: +32-(9)-265-8829

Cardolite Chemical Zhuhai Ltd.  
Biyang Road  
Harbor Industrial Zone  
Zhuhai, Guangdong 519050  
P.R. China  
T: +86-756-726-9066  
F: +86-756-726-9067

## DISCLAIMER

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. 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.