

CXE-401 Self-Leveling Epoxy

Technical Data Sheet CXE-401



FOR PROFESSIONAL USE ONLY

This product is intended for use by professional installers. For best project results read all the applicable product information including MSDS, Technical Data Sheet and Product Specification Sheet before using this product.

Product Description

CXE-401 is a three component, high solids, self-leveling novolac epoxy that provides excellent chemical resistance to concentrated acids, caustics and some solvents. Capable of withstanding 98% Sulfuric Acid and 85% Phosphoric Acid.

Product Application

Excellent for secondary containment, chemical plants, pharmaceutical facilities and paper and pulp mills.

Benefits

- Solvent Free, Low Odor, VOC Compliant
- U.S.D.A. Compliant
- Excellent Chemical Resistance
- Excellent Wear Resistance
- Excellent Impact and Abrasion Resistance

Packaging/Coverage

4 Gallon Kit = 50 SF @ 1/8"
Also available in Bulk Kits

Surface Preparation

Proper surface preparation is critical. The area should be cleaned of all oil, grease, etc. and be mechanically prepared by shot blasting, grinding, or scarifying.

Mixing Directions

Mix Part A and Part B together with a Jiffy blade for approximately thirty seconds. Be careful not to introduce excess air into the material. Add Part C (filler) and mix for approximately one minute. Make sure bottom and sides of bucket are scraped to ensure complete mixing.

Application Instructions

Pour the material onto the floor and spread with a squeegee to the manufacturer's recommended coverage.

Cure Times at 73°F

Regular Cure

Pot Life	40-45 Minutes
Re-Coat	15 Hours
Foot Traffic	15 Hours
Forklift Traffic	48 Hours
Full Chemical Resistance	7 Days

Fast Cure

Pot Life	20-25 Minutes
Re-Coat	6 Hours
Foot Traffic	6 Hours
Forklift Traffic	48 Hours
Full Chemical Resistance	7 Days

Priming

CXE-401 is resin-rich and does not need a primer on sound concrete. However, to help reduce outgassing, blistering and dry spots, we recommend first priming with CXE-400.

Colors

Available in Corvixx Polymers 10 Standard Colors. Specialty Colors available upon request, additional charges may apply.

Storage/Shelf Life

Materials should be stored at 50°F – 90°F and out of direct sunlight. Shelf life is one year in unopened containers.

Safety

Please read MSDS before using this product.

Cleanup

Clean mixing and application tools immediately with warm soapy water.

Corvixx Polymers Corporation

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Physical Properties

Density (lbs./gallon)

Part A: 10.6

Part B: 8.6

Mixed A & B: 9.92

A,B & Fill: 14

Viscosity: Pourable

Mixing Ratio by Volume

Part A:Part B – 2:1

A & B Mixed: Corro-Fill: 1:1

Theoretical Coverage

4 Gallon Pak – 50 SF @ 1/8"

Set Times (Slab Temp)	50°F.	73°F.	90°F.	Set Times (Slab Temp)	50°F.	73°F.	90°F.
REGULAR CURE				FAST CURE			
Pot Life	1 Hour	45 Min.	25 Min.	Pot Life	45 Min.	20-25 Min.	15-20 Min.
Foot Traffic	18 Hours	15 Hours	12 Hours	Foot Traffic	12 Hours	6 Hours	4 Hours
Forklift Traffic	72 Hours	48 Hours	24 Hours	Forklift Traffic	72 Hours	48 Hours	24 Hours
Full Chemical Resistance*	9 Days	7 Days	5 Days	Full Chemical Resistance*	9 Days	7 Days	5 Days

*Refer to Chemical Resistance Chart

ASTM	TEST METHOD	Liquids Only	Filled System
C579	Compressive Strength		6592 psi
C579	Percent Compressive Resiliency		24%
	Ratio of Force to % Resiliency		274:1
C579	Compressive Strength @ Yield		3142 psi
C579	Percent Compressive Resiliency @ Yield		6%
D695	Compressive Strength	7250 psi	
D695	Percent Compressive Resiliency	44%	
	Ratio of Force to % Resiliency	165:1	
D695	Compressive Strength @ Yield	3417 psi	
D695	Percent Compressive Resiliency @ Yield	10.73%	
C580	Flexural Strength		3307 psi
C580	Flexural Modulus of Elasticity		1,35 x 106
D790	Flexural Strength	4640 psi	
D790	Flexural Modulus of Elasticity	1,76 x 105	
C307	Tensile Strength		1854 psi
C307	Percent Tensile Elongation		13%
	Ratio of Tensile Stress to % Elongation		143:1
D638	Tensile Strength	1707 psi	
D638	Percent Tensile Elongation	15%	
	Ratio of Tensile Stress to % Elongation	114:1	
C321	Bond Strength to Concrete		Failure in Concrete
D4541	Bond Strength to Concrete	Failure in Concrete	
C884	Thermal Compatibility to Concrete	No Delamination	No Delamination
C413	Absorption Filled		Less Than .1%
C413	Absorption Unfilled	0%	

Warranty

Corvixx Polymers Corporation warrants our products to be free of manufacturing defects. Liability for products proven defective is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Corvixx Polymers Corporation. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CORVIXX POLYMERS CORPORATION, EXPRESSED OR IMPLIED.

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