

CHEMCLAD[®] XC

Outstanding protection in some of the most aggressive chemical environments.

- Extraordinary Chemical Resistance
- Apply by Brush or Roller
- Unlimited Shelf Life
- 100% Solids
- Ultra High Performance



CHEMCLAD[®] XC is the finest chemical protection polymer system available for machinery, equipment & structures.



CHEMCLAD[®] XC is a two component, 100% solids, ultra high performance, chemical resistant coating that provides unrivaled protection in some of the toughest chemical environments.

CHEMCLAD[®] XC is resistant to a very broad range of organic and inorganic acids, alkalis, solvents, salts, hydrocarbons, etc. It is easily applied by brush or roller and can be used to protect all types of metal and cementitious surfaces. For your toughest chemical attack problems, use CHEMCLAD[®] XC.



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Systems Specialists.
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Technical Data

Volume capacity per kg.	52 in ³ / 854 cc	
Mixed density	0.042 lbs per in ³ / 1.17 gm per cc	
Coverage rate per kg. @ 10-12 mils.	30 - 35 ft ² / 3 m ²	
Shelf life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	1.4	1
By weight	5	3

Cure Times

Ambient Temperature	Working Life	Touch Dry	Maximum Overcoating	Full Cure
41°F 5°C	50 min	24 hrs	30 hrs	7 days
59°F 15°C	40 min	8 hrs	24 hrs	6 days
77°F 25°C	30 min	4 hrs	20 hrs	4 days
86°F 30°C	25 min	3 hrs	16 hrs	3 days

Physical Properties

Typical Values	Test Method
Tensile Shear Adhesion	
Steel 2900 psi	203 kg/cm ² ASTM D-1002
Aluminum 2400 psi	168 kg/cm ² ASTM D-1002
Copper 2500 psi	175 kg/cm ² ASTM D-1002
Stainless steel 2700 psi	189 kg/cm ² ASTM D-1002
Elcometer Adhesion - to properly prepared cementitious surfaces is greater than the cohesive strength of the substrate.	

CHEMCLAD® P4C Technical Data

Theoretical coverage rate per kg. @ 3 mils.		70 - 80 ft ² / 6 - 7 m ²	
Mixing ratio	Base	Activator	
-by volume	2	5	
-by weight	2	5	
Ambient Temperature	Working Life	Minimum Overcoating	Maximum Overcoating
41°F 5°C	120 min	16 hrs	48 hrs
59°F 15°C	75 min	12 hrs	36 hrs
77°F 25°C	60 min	8 hrs	24 hrs
86°F 30°C	50 min	5 hrs	16 hrs

Chemical Resistance

Acetic acid (0-10%) EX	Methyl alcohol G
Acetic acid (10-20%) G	Methyl ethyl ketone G
Acetone G	Naptha EX
Aviation fuel (JP-4) EX	Nitric acid (0-20%) EX
Brake fluid EX	Phenol G
Butyl alcohol EX	Phosphoric acid (0-50%) EX
Calcium chloride EX	Potassium chloride EX
Carbon tetrachloride G	Propyl alcohol EX
Chloroform G	Skydrol EX
Crude oil EX	Sodium chloride EX
Diesel oil EX	Sodium hydroxide EX
Ethyl alcohol EX	Sulfuric acid (0-20%) EX
Gasoline EX	Sulfuric acid (50%) EX
Heptane EX	Sulfuric acid (98%) EX
Hydrochloric acid (0-20%) EX	Toluene EX
Kerosene EX	Xylene EX

EX - Suitable for most applications including immersion.
G - Suitable for intermittent contact, splashes, etc.

Using CHEMCLAD® XC

Surface Preparation - CHEMCLAD® XC should only be applied to clean, firm, dry, and well roughened surfaces.

1. Remove all loose material and surface contamination.
2. Depending on the surface, solvent clean and / or remove contamination by abrasive blasting, steam cleaning, pressure washing or other suitable means.
3. New concrete should be allowed to cure for a minimum of 28 days prior to treatment. Insure that all laitance is removed from cementitious surfaces before applying the CHEMCLAD® system.
4. After removing all surface and sub-surface contamination, flush the area as necessary and allow to dry completely.
5. Metallic surfaces should be abrasive blasted to achieve a 'white metal' finish and a 3 mil profile. Commence the application of the CHEMCLAD® XC immediately upon completion of surface preparation and before any oxidation takes place.

Priming Concrete Surfaces - Prior to applying CHEMCLAD® XC to concrete and / or cementitious substrates, the surface should be treated with CHEMCLAD® P4C to seal the surface, minimize out-gassing and insure that optimum adhesion is obtained. After mixing, CHEMCLAD® P4C should be applied using a brush or roller at the rate of 70 - 80 square feet (6 - 7 square meters) per kilogram to achieve the recommended film thickness of 3 mils.

Note: Coverage will be reduced on very rough and / or porous surfaces.

The application of the CHEMCLAD® XC may commence when the applied CHEMCLAD® P4C reaches its minimum overcoating time and should be completed within its maximum overcoating time as listed in the chart on the left. For additional details concerning the use of the CHEMCLAD® P4C, please refer to the instructions supplied with the material.

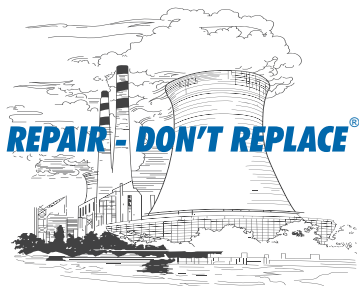
Mixing & Application - CHEMCLAD® XC is supplied in pre-measured quantities to simplify mixing of full units. Simply pour the contents of the Activator container into the Base container; then, using the supplied stirrer or a paint mixer in an electric drill, mix thoroughly until a uniform, streak-free color is achieved. Apply the mixed CHEMCLAD® XC to the prepared (and / or primed) surface using a brush, squeegee or roller. As a guide, a coverage rate of 30 - 35 square feet (3 square meters) per kilogram should result in an applied thickness of approximately 10 - 12 mils on a relatively smooth surface. However, shape, contour, porosity, roughness, etc. will affect the coverage.

Note: Since a minimum of two coats are recommended, CHEMCLAD® XC is available in different colors to simplify overcoating.

Cleaning of Equipment - Wipe excess material from tools immediately. Use acetone, MEK, isopropyl alcohol or similar solvent as needed.

Health & Safety - Every effort is made to insure that ENECON® products are as simple and safe to use as possible. Normal industry standards and practices for housekeeping, cleanliness and personal protection should be observed. For further information and guidance, please refer to the detailed MATERIAL SAFETY DATA SHEETS (MSDS) supplied with the material and also available on request.

Technical Support - The ENECON® engineering team is always available to provide technical support and assistance. For guidance on difficult application procedures or for answers to simple questions, call your local ENECON® Fluid Flow Systems Specialist or the ENECON® Engineering Center.



All information contained herein is based on long term testing in our laboratories as well as practical field experience and is believed to be reliable and accurate. No condition or warranty is given covering the results from use of our products in any particular case, whether the purpose is disclosed or not, and we cannot accept liability if the desired results are not obtained.

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