



Using CHEMCLAD® HT-XC

A Sprayable Polymer Composite Coating System For Extraordinary Chemical Environments, At Elevated Temperatures.

PLEASE READ THESE INSTRUCTIONS AND SAFETY DATA SHEET (SDS) CAREFULLY PRIOR TO USE

CHEMCLAD® HT-XC is a two component, 100% solids, high performance, sprayable polymer system used for creating an outstanding corrosion and chemical resistant protective coating on all types of equipment and structures, at elevated temperatures.

CHEMCLAD® HT-XC is simple to use — it mixes easily and can be sprayed. Since a minimum of two coats are recommended, CHEMCLAD® HT-XC is available in two colors: cream and brown, to simplify overcoating. This self-leveling, high gloss coating yields a surface that is not only functional, but also aesthetically pleasing.

SURFACE PREPARATION

CHEMCLAD® HT-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® HT-XC immediately upon completion of surface preparation and before any oxidation takes place.

PRIMING CONCRETE SURFACES

Prior to applying CHEMCLAD® HT-XC to concrete and / or cementitious substrates, priming is often necessary. The surface should be treated with a suitable primer to seal the surface, minimize out-gassing and insure that optimum adhesion is obtained. ENECON has a number of possible primers that may be appropriate for specific situations. Please contact your local ENECON Representative for guidance / recommendations and refer to the Instruction Sheet for the selected primer for specific details on the mixing, application and use of the material.

The application of the CHEMCLAD® HT-XC may commence when the applied primer reaches its minimum overcoating time and should be completed within its maximum overcoating time as listed in the Instruction Sheet for the selected material.

MIXING AND APPLICATION

CHEMCLAD® HT-XC is supplied in pre-measured quantities to simplify spray application of full units. ENECON recommends using the Graco E-Mix™ XT Plural-Component System for proportioning, mixing, and spraying two-component coatings. All instructions in the Graco E-Mix™ XT operation manual should be followed.



Technical Data

Volume capacity per kg.	30 in ³ / 492 cc	
Mixed density	0.073 lbs per in ³ / 2.03 gm per cc	
Coverage rate per kg. @ 12 - 15 mils.	14 - 16 ft ² / 1.4 m ²	
Shelf life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	2.5	1
By weight	2.3	1

Working Life & Cure Times

Ambient Temperature		Working Life	Touch Dry	Maximum Overcoating	Full Cure
59°F	15°C	40 min	16 hrs	24 hrs	6 days
77°F	25°C	30 min	8 hrs	16 hrs	4 days
86°F	30°C	25 min	6 hrs	14 hrs	3 days

Physical Properties

Physical Properties		Typical Values	Test Method
Compressive Strength	10,000 psi		ASTM D-695
Hardness - Shore D	98		ASTM D-2240
Tensile Shear Adhesion			
Steel	2,900 psi	259 kg/cm ²	ASTM D-1002
Aluminum	2,400 psi	189 kg/cm ²	ASTM D-1002
Copper	2,500 psi	210 kg/cm ²	ASTM D-1002
Stainless steel	2,700 psi	245 kg/cm ²	ASTM D-1002

Elcometer Adhesion - to properly prepared cementitious surfaces is greater than the cohesive strength of the substrate.

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. NR - Not recommended

Note: CHEMCLAD® HT-XC is high temperature tested at 165°C (329°F) in autoclave environments.

ENECON products are manufactured under an ISO 9001
Registered Quality Management System.

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.

CLEANING EQUIPMENT

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

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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