ENECON®

Using CHEMCLAD® SC

NSF Approved - Protects All Types Of Surfaces In Potable Water Applications...

Certified to NSF/ANSI 61

For NSF use information go to:
http://info.nsf.org/certified/pwscomponents/index.asp?standard=061

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

CHEMCLAD® SC is a two component, 100% solids, polymer system used for creating an outstanding corrosion and chemical resistant protective coating on all types of potable water equipment and structures.

CHEMCLAD® SC is simple to use. It mixes easily and can be applied by brush or roller. It is available in different colors to simplify overcoating. This self-leveling, high gloss coating yields a surface that's not only functional, but also aesthetically pleasing. CHEMCLAD® SC is also available in 'safety yellow'.

SURFACE PREPARATION

CHEMCLAD® SC 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 CHEMCLAD® SC.

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® SC immediately upon completion of surface preparation and before any oxidation takes place.

PRIMING CONCRETE SURFACES

Prior to applying CHEMCLAD® SC 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® SC 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® SC 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® SC to the prepared (and / or primed) surface using a brush, squeegee or roller. As a guide, a coverage rate of 50 - 55 square feet (5 square meters) per kilogram should result in an applied thickness of approximately 6 - 7 mils on a relatively smooth surface.

Note: Shape, contour, porosity, roughness, etc. will affect the coverage obtainable. Since a minimum of two coats are recommended, CHEMCLAD® SC is available in different colors to simplify overcoating.

Technical Data

Volume capacity per kg.	48 in^3 / 781 cc	
Mixed density	0.044 lbs per in^3 / 1.28 gm per cc	
Coverage rate per kg. @ 6-7 mils.	50 - 55 ft^2 / 5 m^2	
Shelf life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	4.7	2
By weight	3.29	1

Working Life & Cure Times

Ambient Temperature		Working Life	Touch Dry	Maximum Overcoating	Full Cure
59°F	15°C	90 min	24 hrs	48 hrs	6 days
77°F	25°C	70 min	16 hrs	24 hrs	4 days
86°F	30°C	55 min	8 hrs	16 hrs	3 days

Physical Properties

	Typical Values		Test Method
Tensile Shear Adhesion			
Steel	2300 psi	259 kg/cm^2	ASTM D-1002
Aluminum	1700 psi	189 kg/cm^2	ASTM D-1002
Copper	2200 psi	210 kg/cm^2	ASTM D-1002
Stainless steel	2500 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%)	G	Methyl ethyl ketone	NR
Acetic acid (10-20%)	NR	Naptha	EX
Acetone	NR	Nitric acid (0-10%)	G
Aviation fuel (JP-4)	EX	Nitric acid (10-20%)	G
Butyl alcohol	EX	Phenol	NR
Calcium chloride	EX	Phosphoric acid (0-10%)	G
Carbon tetrachloride	G	Phosphoric acid (10-20%)	G
Chloroform	NR	Potassium chloride	EX
Crude oil	EX	Propyl alcohol	EX
Diesel oil	EX	Skydrol	G
Ethyl alcohol	G	Sodium chloride	EX
Gasoline	EX	Sodium hydroxide	EX
Heptane	EX	Sulfuric acid (0-10%)	EX
Hydrochloric acid (0-10%)	EX	Sulfuric acid (10-20%)	EX
Hydrochloric acid (10-20%)	EX	Toluene	NR
Kerosene	EX	Trichlorethylene	NR
Methyl alcohol	G	Xylene	G

EX - Suitable for most applications including immersion. G - Suitable for intermittent contact, splashes, etc. NR- Not recommended

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 SAFETY DATA SHEETS (SDS) 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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