

Using **CHEMCLAD** SC

PLEASE READ THESE INSTRUCTIONS AND MATERIAL SAFETY DATA SHEET (MSDS) 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 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, the surface should be treated with CHEMCLAD® P4C to seal the surface, minimize out-gassing and insure that optimum adhesion is obtained. CHEMCLAD® P4C is a two component, water borne, polymeric "adhesion enhancer" specifically formulated to help seal concrete / cementitious surfaces and insure optimum interface bonding between the surface and the CHEMCLAD® SC.

Combine the two components and mix thoroughly until a uniform, streak-free, off-white color is achieved. Apply the mixed CHEMCLAD® P4C to the surface using a brush or roller. Coat the area thoroughly but DO NOT flood or pool the CHEMCLAD® P4C.

After first mixing the Base and Activator components together, the CHEMCLAD® P4C may be thinned using a small amount of water to improve application characteristics.



As a guide, the maximum amount of water which may be added is 1 part water to 4 parts mixed CHEMCLAD® P4C. While thinning with water does not increase coverage rate, it will help insure that the optimum coverage rate is achieved for the given surface conditions.

While surface contour, roughness, porosity, etc. can affect coverage rate, as a guide, each kilogram of CHEMCLAD® P4C will cover approximately 70 - 80 square feet (6 - 7 square meters) when applied at the recommended dry film thickness of 3 mils on a relatively smooth, uniform surface.

Note: Should less than a full unit quantity of CHEMCLAD® P4C be required for a particular application, a partial mix can be accomplished by mixing 2 parts Base to 5 parts Activator by volume (2:5, v/v).

CHEMCLAD® P4C is not NSF certified. All CHEMCLAD® P4C must be applied and overcoated with CHEMCLAD® SC in accordance with the following guidelines:

CHEMCLAD °	P4C	Te <mark>dnical [</mark>	Data	
Theoretical coverage rate per kg. @ 3 mils. 70 - 80 ft² / 6 - 7 m²				
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	

Note: On severely pitted concrete floors / floor areas, the use of the ENECLAD® Self Priming Screed is recommended as an alternative to the CHEMCLAD® P4C.

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 ft² / 5 m²
Shelf life		Indefinite
Volume solids		100%
Mixing ratio	Base	Activator
By volume	4.7	2
By weight	3.29	1

Wor	king	Life & Cu Working Life	re_Time	S	
Ar Tem	nbient perature	Working Life	Touch Dry	Maximum Overcoating	Full Cure
41°F	5°C	110 min	55 hrs	96 hrs	10 days
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	3700 psi	259 kg/cm ²	ASTM D-1002
Aluminum	2700 psi	189 kg/cm ²	ASTM D-1002
Copper	3000 psi	210 kg/cm ²	ASTM D-1002
Stainless steel	3500 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%)
Hydrochloric acid (10-20%) EX	Toluene NR
Kerosene EX	Trichlorethylene NR
Methyl alcohol G	Xylene
EX - Suitable for most applications including im	
splashes, etc. NR-1	Not recommended

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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