

*Revolutionary products . . .*

*. . . for rebuilding, resurfacing and protecting all types of fluid flow machinery, equipment and structures.*

CHEMCLAD® SC

# CHEMCLAD® SC

Outstanding  
Chemical Resistance  
Apply by Brush or Roller  
Unlimited Shelf Life  
100% Solids  
Simple To Use  
Durable

## Protects surfaces from chemical attack....

All types - Concrete, Rigid Plastics, Tile, Slate, Wood and Metal!

**CHEMCLAD® SC** - 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** provides extraordinary protection to machinery equipment and structures in some of the most severe industrial environments.

**Pipes • Tanks • Housings • Pedestals  
Floors • Containment Areas**



**ENECON** Corporation  
The Fluid Flow  
Systems Specialists.

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CHEMCLAD® SC

Technical Data		
Volume capacity per kg.	48 in <sup>3</sup> / 781 cc	
Mixed density	0.044 lbs per in <sup>3</sup> / 1.28 gm per cc	
Coverage rate per kg. @ 6-7 mils.	50 - 55 ft <sup>2</sup> / 5 m <sup>2</sup>	
Shelf life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	5	2
By weight	3.8	1

Cure Times					
Ambient Temperature		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 <sup>2</sup>	ASTM D-1002
Aluminum	2700 psi	189 kg/cm <sup>2</sup>	ASTM D-1002
Copper	3000 psi	210 kg/cm <sup>2</sup>	ASTM D-1002
Stainless steel	3500 psi	245 kg/cm <sup>2</sup>	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 <sup>2</sup> / 6 - 7 m <sup>2</sup>
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%)	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	EX	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

Your Local ENECON® Fluid Flow Systems Specialist

# Using CHEMCLAD® SC

**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®.
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. After mixing, 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.

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

The application of the CHEMCLAD® SC may commence when the applied 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 P4C, please refer to the appropriate section of the CHEMCLAD® SC instructions supplied with the material.

**Mixing & 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.

Please 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.

**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 of 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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