



## Using ENECLAD® CFS

**PLEASE READ THESE INSTRUCTIONS AND MATERIAL SAFETY DATA SHEET (MSDS) CAREFULLY PRIOR TO USE**

ENECLAD® CFS is a two-component, 100% solids, clear concrete sealer that is virtually odor-free. It has been specifically formulated to provide outstanding sealing and dust-proofing for all types of cement and mineral substrates.

ENECLAD® CFS is very easy to apply by roller, brush or rubber squeegee. It penetrates and seals porous concrete providing a hard wearing, non-dusting, easy-to-clean surface.

ENECLAD® CFS exhibits excellent abrasion and impact resistance. It holds up to most industrial cleaners, lubricants and common maintenance chemicals.

### SURFACE PREPARATION

ENECLAD® CFS should only be applied to clean, firm, dry and well roughened surfaces.

1. Remove all loose material and surface and sub-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. After removing all surface and sub-surface contamination, flush the area as necessary and allow to dry completely.

### MIXING AND APPLICATION

For your convenience, the ENECLAD® CFS Base and Activator have been supplied in precisely measured quantities to simplify mixing of full units. Should less than a full unit quantity of material be required for a particular application, a partial mix can be accomplished by mixing 2 parts Base to 1 part Activator by volume (2:1, v/v).

While hand mixing is possible, the use of a mechanical mixing device such as a paint mixer in an electric drill or other suitable device will accelerate the mixing process. Pour the entire contents of the Activator container into the Base container and mix the liquids together thoroughly. Once mixed, the unit should be poured into smaller containers and / or roller pans to prolong its working life.

Apply the mixed ENECLAD® CFS to the surface using brushes and / or rollers. For large floor areas, long handled roller sets should be used to ease the application. Regardless of the application device / method, press the material in well to eliminate entrapped air and insure thorough contact with the surface.

### Technical Data

Volume capacity per kg.	55 in <sup>3</sup> / 900 cc	
Mixed density	0.040 lbs per in <sup>3</sup> / 1.11 gm per cc	
Coverage rate per kg.	3 mil / 75 microns	
	125 ft <sup>2</sup> / 11.6 m <sup>2</sup>	
Shelf life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	2	1
By weight	2.4	1

### Cure Times

Ambient Temperature		Working Life	Light Load	Full Mechanical
41°F	5°C	2 hrs	3 days	7 days
59°F	15°C	40 min	10 hrs	3 days
77°F	25°C	20 min	5 hrs	2 days
86°F	30°C	15 min	3 hrs	1 day

### Physical Properties

Physical Properties	Typical Values		Test Method
Compressive strength	14,000 psi	980 kg/cm <sup>2</sup>	ASTM D-695
Flexural strength	9,500 psi	665 kg/cm <sup>2</sup>	ASTM D-790
Hardness-Shore D	80		ASTM D-2240
Tensile shear adhesion			
Steel	3,000 psi	210 kg/cm <sup>2</sup>	ASTM D-1002
Adhesion - to prepared cementitious surfaces is greater than the cohesive strength of the substrate.			

### Chemical Resistance

Acetic acid (0-5%) . . . . .	G	Methyl alcohol . . . . .	G
Acetone . . . . .	G	Methyl ethyl ketone . . . . .	G
Ammonia solution (0-10%) . . . . .	EX	Nitric acid (0-10%) . . . . .	G
Aviation fuel . . . . .	EX	Palmitic acid . . . . .	EX
Butyl alcohol . . . . .	G	Phosphoric acid (0-5%) . . . . .	EX
Calcium chloride . . . . .	EX	Phosphoric acid (5-10%) . . . . .	G
Crude oil . . . . .	EX	Potassium chloride . . . . .	EX
Diesel fuel . . . . .	EX	Propyl alcohol . . . . .	G
Ethyl alcohol . . . . .	G	Sodium chloride . . . . .	EX
Gasoline . . . . .	EX	Sodium hydroxide . . . . .	EX
Heptane . . . . .	EX	Sulfuric acid (0-50%) . . . . .	G
Hydrochloric acid (0-10%) . . . . .	EX	Tannic acid . . . . .	EX
Hydrochloric acid (10-20%) . . . . .	G	Toluene . . . . .	G
Kerosene . . . . .	EX	Transformer oil . . . . .	EX
Lactic acid (0-10%) . . . . .	G	Xylene . . . . .	EX

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

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## **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**

Clean tools, equipment and overspray, while wet, with warm soapy water. Dried residue can be cleaned with solvents such as mineral spirits or alcohol.

## **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.

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