ENECON®

Using ENECLAD® SPS

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

ENECLAD® SPS is a three component, 100% solids, concrete primer / sealer that is specifically formulated to smooth-out rough concrete surfaces in order to improve the appearance of ENECON® top-coats such as ENECLAD® FPS or CHEMCLAD® polymer systems. It is easy to apply using a trowel or squeegee. ENECLAD® SPS is virtually odor free and has no V.O.C.'s.

ENECLAD® SPS exhibits execellent adhesion to any type of concrete substrate. It also has great impact and abrasion resistance.

SURFACE PREPARATION

ENECLAD® SPS should only be applied to clean, dry, firm 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. 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® SPS Base, Activator and Aggregate have been supplied in precisely measured quantities to simplify mixing of full units. Should a small amount of material be required, measure out 2 parts Base and 1 part Activator by volume (2:1, v/v) and then add Aggregate to achieve the desired consistency.

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 both the Base and Activator cans into the large plastic bucket and mix the liquids together. With the mixing device running, slowly add the Aggregate. Continue mixing until a smooth, uniform mixture is obtained.

Apply the mixed ENECLAD® SPS to the surface using an appropriate tool. While a trowel may be suitable for relatively small areas, the use of a long handled, rubber floor squeegee has been found most effective on larger areas. In either case, press the material in well to eliminate entrapped air and insure thorough contact with the surface.

Please note: it may be necessary to mix the material repeatedly during the application process to insure uniform distribution of the Aggregate and prevent settling.

Technical Data

Volume capacity per kg.	33 in^3 / 540 cc	
Mixed density	0.065 lbs per in^3 / 1.80 gm per cc	
Coverage rate per 20 kg. @ 30 mils / 750 microns	150 ft^2 / 14 m^2	
Shelf life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	2	1
By weight	2.4	1

Working Life & 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	6 hrs	36 hrs
77°F	25°C	20 min	4 hrs	24 hrs
86°F	30°C	15 min	3 hrs	16 hrs

Physical Properties

	Typical Values		Test Method
Compressive strength	11,000 psi	770 kg/cm^2	ASTM C-695
Flexural strength	4,000 psi	280 kg/cm^2	ASTM D-790
Hardness - Shore D	88		ASTM D-2240
Tensile shear adhesion			
Steel	2,000 psi	140 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 (0-5%)	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.

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.

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.

ENECON® Corporation
The Fluid Flow Systems Specialists.
www.enecon.com
Toll Free: 888-4-ENECON (888-436-3266)
Tel: 516 349 0022 · Fax: 516 349 5522
Email: info@enecon.com
6 Platinum Court · Medford, NY 11763-2251

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