

Revolutionary products . . .

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

ENECLAD® FPS 2000

(Floor Protection System)

ENECLAD® FPS 2000

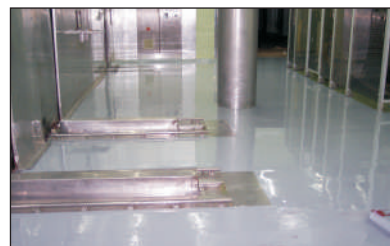
Traffic Resistance
Abrasion Resistance
Chemical Resistance
Oil Resistance
Detergent Resistance
Easy Application
Easy Maintenance
No V.O.C.'s
No Odor

EXTREME Floor Protection for EXTREME Environments

Easy to apply **ENECLAD® FPS 2000** seals and **protects** concrete floors. This extraordinary high-performance polymer composite is extremely abrasion resistant, making it ideal for heavy traffic areas in warehouses, hangars, loading docks, etc. **FPS 2000 jackets the surface** in a rugged, armored coating that resists forklift traffic, oil, gasoline and many common industrial chemicals.

ENECLAD® FPS 2000 is a **solvent-free, virtually odor-free, two-component product** specifically developed to solve some of the toughest industrial floor protection problems. It is easily applied by brush, roller or squeegee to a super high-gloss finish. Non-skid aggregates can be incorporated into the **ENECLAD® FPS 2000** to provide a highly durable, slip resistant surface.

ENECLAD® FPS 2000 high performance polymer system has been **specifically formulated for new or old concrete floors**. **FPS 2000** produces a seamless surface that is easy to clean and easy to maintain.



ENECON Corporation
The Fluid Flow Systems Specialists.

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Technical Data

Volume capacity per kg.	46 in ³ / 750 cc	
Mixed density	0.048 lbs per in ³ / 1.31 gm per cc	
Coverage rate per kg. @ 12 mils / 300 microns	25 ft ² / 2.3 m ²	
Shelf life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	2	1
By weight	3	1

Cure Times

Ambient Temperature	Working Life	Touch Dry	Maximum Overcoat	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
Compressive strength	11,000 psi	770 kg/cm ²	ASTM C-695
Flexural strength	9,000 psi	630 kg/cm ²	ASTM D-790
Hardness-Shore D	86		ASTM D-2240
Abrasion resistance	35 mg / 1,000 cycles		ASTM D-4060
Shear adhesion - steel	4,100 psi	287 kg/cm ²	ASTM D-1002

Adhesion - to prepared cementitious surfaces primed with ENECLAD™ CFS is greater than the cohesive strength of the substrate.

ENECLAD™ CFS Technical Data

Theoretical coverage rate per kg. @ 3 mils.	125 ft ² / 11.6 ²		
Mixing ratio	Base	Activator	
-by volume	2	1	
-by weight	2.4	1	
Ambient Temperature	Pot Life	Minimum Overcoating	Maximum Overcoating
41°F 5°C	2 hrs	3 days	7 days
59°F 15°C	40 min	10 hrs	36 hrs
77°F 25°C	20 min	5 hrs	24 hrs
86°F 30°C	15 min	3 hrs	16 hrs

Chemical Resistance

Gasoline	EX	Detergent Solution	EX
Kerosene	EX	Trisodium Phosphate	EX
50% Anti-Freeze	EX	20% Calcium Chloride	EX
Transmission Fluid	EX	10% Hydrochloric Acid	EX
Power Steering Fluid	EX	10% Sulfuric Acid	EX
Motor Oil	EX	10% Sodium Hydroxide	EX

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

Your Local ENECON® Fluid Flow Systems Specialist

Using ENECLAD® FPS 2000

Surface Preparation - ENECLAD® FPS 2000 should only be applied to clean, firm, dry, and well roughened surfaces.

1. Brush loose dirt from the surface to be treated and remove all oil, grease and other surface and sub-surface contamination using a solvent which leaves no residue such as acetone, MEK, isopropyl alcohol, etc.

...for cementitious surfaces

2. Clean and roughen the surface by abrasive blasting, steam cleaning, pressure washing or other suitable means.
3. Apply CHEMCLAD® P4C Primer (see "Priming Concrete Surfaces") and commence the application of ENECLAD® FPS 2000 within the specified overcoating times.

...for metal surfaces

2. Thoroughly roughen the area to be treated by abrasive blasting, insuring that the air used for this operation is free of oil, water or other contaminants.
3. The grit blasting equipment and media should be sufficient to yield a "white metal" surface and a minimum 3 mil anchor profile.
4. Commence the application of the ENECLAD® FPS 2000 immediately upon completion of surface preparation.

Priming Concrete Surfaces - Prior to applying ENECLAD® FPS 2000 to concrete and/or cementitious substrates, the surface should be treated with ENECLAD® CFS to seal the surface and insure optimum adhesion is obtained. After mixing, CFS should be applied using a brush or roller at the rate of 125 square feet (11 - 12 square meters) per kilogram to achieve the recommended film thickness of 3 mils. Please note: coverage will be reduced on excessively rough and/or porous surfaces. The application of the ENECLAD® FPS 2000 may commence as soon as the applied CFS is touch dry and should be completed within 24 hours of Priming. For specific details concerning the use of the CFS, please refer to the appropriate section of the ENECLAD® CFS Tech Sheet.

Mixing & Application - For your convenience, the ENECLAD® FPS 2000 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, a partial mix can be accomplished by mixing 2 parts Base to 1 part Activator by volume (2:1, v/v).

Pour the entire contents of the Activator container into the Base container. Mix the components thoroughly with a paint mixer in an electric drill or other appropriate tool until the material reaches a uniform, streak-free color. Scrape down the sides and bottom of the container and re-mix.

Apply the mixed ENECLAD® FPS 2000 to the prepared surface using a brush or roller, pressing firmly to insure thorough contact with the prepared surface. Care should be taken to apply a uniform thickness of approximately 12 mils over the area.

Where a non-slip surface is desired, apply two thinner coats of ENECLAD® FPS 2000. After applying the first coat at about 6 - 8 mils, the selected aggregate should be sprinkled on and then back-rolled into the layer. Within the specified overcoating time, apply a second coat at a thickness of about 4 - 6 mils to lock in the aggregate.

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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