



Using ENECLAD® WBC

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

ENECLAD® WBC is a water-based, two component coating system that has been specifically designed to seal and protect concrete surfaces that may experience moisture problems. ENECLAD® WBC is a breathable coating system that resists blistering due to hydrostatic pressure issues through the concrete. It bonds to virtually any mineral / cement substrate as well as wood.

SURFACE PREPARATION

ENECLAD® WBC 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 ENECLAD® WBC.
4. After removing all surface and sub-surface contamination, flush the area as necessary and allow to dry completely.

PRIMING CONCRETE SURFACES

Prior to applying ENECLAD® WBC 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 ENECLAD® WBC.

Combine the two components of CHEMCLAD® P4C 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 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).

All CHEMCLAD® P4C must be applied and overcoated with ENECLAD® WBC in accordance with the following guidelines:

CHEMCLAD® P4C Technical Data

Theoretical coverage rate per kg. @ 3 mils.		70 - 80 ft ² / 6 - 7 m ²	
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

MIXING AND APPLICATION

ENECLAD® WBC is supplied in pre-measured quantities to simplify mixing of full units. Simply pour the contents of the Base container into the Activator 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 ENECLAD® WBC to the prepared (and / or primed) surface using a brush, squeegee or roller. As a guide, a coverage rate of 25 - 30 square feet (2 - 2 1/2 square meters) per kilogram should result in an applied thickness of approximately 10 - 12 mils or a cured thickness of 5 - 6 mils on a relatively smooth surface. 2 coats of ENECLAD® WBC should be applied per project resulting in a final ENECLAD® WBC cured thickness of 10 - 12 mils. Optimum recoat time between coats is 16 - 24 hours.

Note: Shape, contour, porosity, roughness, etc. will affect the coverage obtainable. A minimum of two coats are recommended.

ENECLAD® WBC Technical Data

Theoretical coverage rate per kg. @ 10 - 12 mils		25 - 30 ft ² / 2 - 2 1/2 m ²	
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

Working Life & Cure Times

Ambient Temperature	Foot Traffic	Fork Lift	Full Cure
59°F 15°C	48 hrs	7 days	14 days
68°F 20°C	36 hrs	6 days	10 days
77°F 25°C	24 hrs	4 days	7 days
86°F 30°C	18 hrs	3 days	5 days

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.

Copyright © 2015 by ENECON Corporation. All rights reserved. No part of this work may be reproduced or used in any form or by any means - graphic, electronic, or mechanical including photocopying, recording, taping or information storage and retrieval systems - without written permission of ENECON Corporation.



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

info@enecon.com

6 Platinum Court · Medford, NY 11763-2251