METALCLAD® DUPANOY

Repairs to all types of equipment, including in-place shaft repairs...

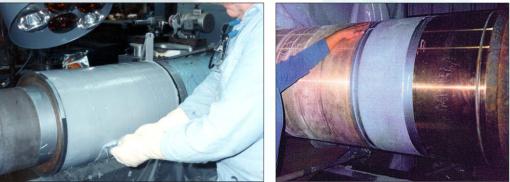
- Machineable
- Trowelable
- Requires No Heat
- Unlimited Shelf Life
- 100% Solids
- Safe & Simple To Use



- Worn Shafts
- Cracked & Holed Casings
- Oversized Bearing & Bush Housing
- Scored Rams
- Sloppy Keyways
- Stripped Threads
- Warped, Distorted or Steam-Cut Flange Faces



METALCLAD DurAlloy[™] is a two-component, 100% solids, multi-purpose polymer composite which can be easily machined on a lathe, drilled, tapped, filed, sanded and polished...



When properly mixed, *METALCLAD DurAlloy*[™] is a non-sagging paste which quickly cures to a metal-hard material creating a permanent bond to any rigid surface such as metal, plastic, glass, wood, concrete and more.

R - DON'T REPLACE

EXAMPLE 1 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

Technical Data				
Volume capacity per kg	j. 25 in	³ / 410 cc		
Mixed density	0.088	3 lbs per in ³ / 2.44 gm per cc		
Coverage rate per kg.				
@ 0.25 in / 6 mm	100 i	100 in ² / 0.064 m ²		
Shelf life	Indef	înite		
Volume solids	100%	6		
Mixing ratio	Base	Activator		
By volume	3	1		
By weight	5	1		

Working Life & Cure Times

	oient erature	Working Life	Machining/ Light Load	Full Mechanical	Chemical Immersion
41°F	5°C	40 min	1 day	4 days	7 days
59°F	15°C	25 min	5 hrs	2 days	3 days
77°F	25°C	20 min	2 hrs	1 day	2 days
86°F	30°C	15 min	1.5 hrs	16 hrs	1 day

Physical Proper	ties Typica	l Values	Test Method
Compressive strength	13,500 psi	945 kg/cm ²	ASTM D-695
Flexural strength	9,500 psi	665 kg/cm ²	ASTM D-790
Izod impact strength	1.2 ft lbs/in	0.69 j/cm	ASTM D-256
Hardness - Shore D	8	36	ASTM D-2240
Tensile Shear Adhesion			
Steel	3600 psi	252 kg/cm ²	ASTM D-1002
Aluminum	2000 psi	140 kg/cm ²	ASTM D-1002
Copper	3000 psi	210 kg/cm ²	ASTM D-1002
Stainless steel	3500 psi	245 kg/cm ²	ASTM D-1002
Surface resistivity	1 x 10 ¹⁸	⁵ ohms	ASTM D-257
Volume resistivity	1 x 10 ¹⁵	ASTM D-257	
Dielectric constant	7.5		ASTM D-150

Chemical Resistance

Acetic acid (0-10%) EX Ammonium hydroxide (0-10%) EX Aviation fuel EX Butyl alcohol EX Calcium chloride EX Crude oil EX Diesel fuel EX Ethyl alcohol EX Ethyl alcohol EX Heptane EX Hydrochloric acid (0-10%) EX Hydrochloric acid (10-20%) G	Methyl alcohol G Mineral oil EX Nitric acid (0-10%) EX Nitric acid (10-20%) G Phosphoric acid (0-10%) G Potassium chloride EX Propyl alcohol EX Sodium chloride EX Sodium hydroxide EX Sulfuric acid (0-10%) EX Sulfuric acid (10-20%) G Toluene G
Kerosene	Xylene EX

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



Using DurAlloy^{**}

Surface Preparation - METALCLAD DurAlloy[™] should only be applied to clean, dry and well roughened surfaces.

1. Remove all loose material and surface contamination.

2. Clean with a suitable solvent which leaves no residue on the surface after evaporation such as acetone, MEK, isopropyl alcohol, etc.

3. If necessary, apply moderate heat to remove ingrained oil and clean again with solvent.

4. Roughen surface by abrasive blasting, grinding, rotary file or other appropriate means.

Note: In situations where adhesion is not desired, such as when making molds and patterns or to ease future disassembly, apply a suitable release agent (mold release compound, paste wax, etc.) to the appropriate surfaces.

Mixing & Application - For your convenience, the METALCLAD DurAlloy[™] Base and Activator have been supplied in precisely measured quantities to simplify mixing of full units. Should a small amount of material be required, measure out three parts Base and one part Activator by volume (3:1, v:v) on a clean mixing surface. Keep Base and Activator separated until ready to mix and apply. Using a spatula, putty knife or other appropriate tool, mix thoroughly until all streaks disappear, resulting in a uniform color and consistency. Spread material out in a thin layer over the mixing surface to force out any trapped air. This procedure will also maximize working time.

Some applications such as holed pipes or tanks and cracked casings may require the use of reinforcement tape to bridge the damaged area(s) followed by the application of additional material to completely cover the reinforcement tape.

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. Please refer to the detailed MATERIAL SAFETY DATA SHEETS (MSDS) supplied with the material (also available on request) for more information.

Cleaning 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.

Copyright © 2012 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.