METALCLAD[®] CeramAlloy CBX

Repair & protect all types of equipment subject to very aggressive abrasion.

- Extraordinary
 Abrasion Resistance
- Trowelable
- Requires No Heat
- Unlimited Shelf Life
- 100% Solids
- Safe & Simple to Use

METALCLAD® CeramAlloy® CBX is a three component, 100% solids, polymer composite specifically formulated to provide effective repair and rebuilding characteristics on all types of equipment subject to severe abrasion.

METALCLAD® CeramAlloy® CBX is a paste when mixed, so it is easily applied. When cured, METALCLAD® CeramAlloy® CBX becomes a metal-hard, highly abrasion resistant compound engineered to repair deeply damaged components in the most aggressive abrasive environments.

Repairs & Protects...

- Elbows
- Pipes
- Pumps
- Chutes
- Deflector Plates
- Cyclones
- Separators
- Vibratory Feeders
- Transfer Augers
 ...and more.







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Technical Data					
Volume capacity p	er 5 kg. 110 ii	110 in ³ / 1790 cc			
Mixed density	0.100	lbs per in ³ / 2.76	gm per cc		
Coverage rate per @ 200 mils/5mm		ft²/ 0.35 m²			
Shelf life	Indef	inite			
Volume solids	100%	0			
Mixing ratio	Base	Activator	Aggregate		
By volume	5	2	14		
By weight	7	2	20		

Working Life & Cure Times						
Aml	pient	Working	Full	Chemical		
Tempe	erature	Life	Mechanical	Immersion		
59°F	15°C	30 min	48 hrs	3 days		
77°F	25°C	20 min	24 hrs	2 days		
86°F	30°C	15 min	16 hrs	1 day		

Physical Properties Typical Values Test Method					
Compressive strength	16,000 psi	1125 kg/cm ²	ASTM D-695		
Flexural strength	6,000 psi	422 kg/cm ²	ASTM D-790		
Hardness - Shore D	86		ASTM D-2240		
Tensile Strength	2,500 psi	176 kg/cm ²	ASTM D-2370		
Tensile Shear Adhesion (CL+AC primer to substrate)					
Steel	4000 psi	280 kg/cm ²	ASTM D-1002		
Aluminum	2500 psi	175 kg/cm ²	ASTM D-1002		
Copper	3000 psi	210 kg/cm ²	ASTM D-1002		
Stainless steel	4100 psi	287 kg/cm ²	ASTM D-1002		

Chemical Resistance				
Acetic acid (0-10%) G Ammonium hydroxide (0-10%) EX Aviation fuel EX Butyl alcohol EX Calcium chloride EX Crude oil EX Diesel fuel EX Ethyl alcohol G Gasoline EX Heptane EX Hydrochloric acid (0-10%) EX Hydrochloric acid (10-20%) G Kerosene EX	Methyl alcohol			
EX - Suitable for most applications including immersion.				

G - Suitable for intermittent contact, splashes, etc.



Using CeramAlloy® CBX

Surface Preparation - METALCLAD® CeramAlloy® CBX 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.

Priming The Surface - CeramAlloy® CL+AC is supplied as a primer in each 5 kg CeramAlloy® CBX system. Pour the contents of the Activator container into the Base container and mix thoroughly. Prime the area to be treated with the mixed CeramAlloy® CL+AC using a stiff-bristled brush. As a guide, an even thickness of approximately 10 - 12 mils should be obtained. Priming should be completed within 45 minutes of mixing

Overcoating with CeramAlloy® CBX should ideally be performed when the priming layer of CeramAlloy® CL+AC is just tacky and certainly within 8 hours of application.

Note: CeramAlloy® CL+AC is available separately as a primer for the 20 kg units of CeramAlloy® CBX.

Mixing & Application - For your convenience, the CeramAlloy® CBX 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 5 parts Base, 2 parts Activator and 14 parts Aggregate by volume (5:2:14, v/v).

To facilitate mixing of full units, a mechanical mixing device is strongly recommended. Combine the Base and Activator liquids in the large, plastic bucket and, with the mixer running, slowly add the Aggregate.

Apply the mixed CeramAlloy® CBX to the prepared and primed surface using a trowel, putty knife, or other appropriate tool, pressing well to insure intimate contact and force out any air entrapped as a result of the mixing technique and/or device used

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 SAFETY DATA SHEETS (SDS) 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.

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