METALCLAD®
CeramAlloy® EBX

Economy version of our extraordinary CeramAlloy® CBX, Super Abrasion Resistant Polymer Composite.

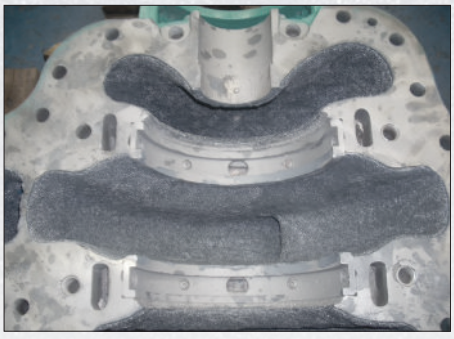
- Extraordinary Abrasion Resistance
- Trowelable
- Requires No Heat
- Unlimited Shelf Life
- 100% Solids
- Safe & Simple to Use

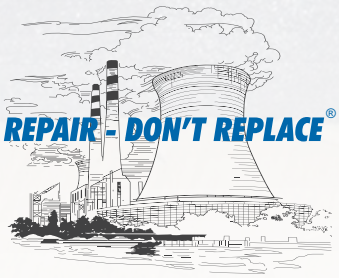
METALCLAD® CeramAlloy® EBX is a three component, 100% solids, polymer composite specifically formulated to effectively repair and rebuild all types of equipment subject to severe abrasion.

CeramAlloy® EBX is a paste when mixed, so it is easily applied. When cured, however, *CeramAlloy® EBX* 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 per 5 kg.	124 in^3 / 2032 cc
Mixed density	0.089 lbs per in^3 / 2.46 gm per cc
Coverage rate per 5 kg. @ 200 mils/5mm	4.31 ft^2 / 0.40 m^2
Shelf life	Indefinite
Volume solids	100%

Mixing ratio	Base	Activator	Aggregate
By volume	5	2	15
By weight	7	2	20

Working Life & Cure Times

Ambient Temperature		Working Life	Full Mechanical	Chemical 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	13,000 psi	910 kg/cm^2	ASTM D-695
Flexural strength	5,000 psi	350 kg/cm^2	ASTM D-790
Hardness - Shore D	86		ASTM D-2240
Tensile Strength	2,100 psi	147 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	Methyl alcohol	G
Ammonium hydroxide (0-10%)	EX	Mineral oil	EX
Aviation fuel	EX	Nitric acid (0-10%)	EX
Butyl alcohol	EX	Nitric acid (10-20%)	G
Calcium chloride	EX	Phosphoric acid (0-10%)	G
Crude oil	EX	Potassium chloride	EX
Diesel fuel	EX	Propyl alcohol	EX
Ethyl alcohol	G	Sodium chloride	EX
Gasoline	EX	Sodium hydroxide	EX
Heptane	EX	Sulfuric acid (0-10%)	EX
Hydrochloric acid (0-10%)	EX	Sulfuric acid (10-20%)	G
Hydrochloric acid (10-20%)	G	Toluene	G
Kerosene	EX	Xylene	EX

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

Printed in the USA
November, 2015

Using CeramAlloy® EBX

Surface Preparation - METALCLAD® CeramAlloy® EBX 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® EBX 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® EBX 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® EBX.

Mixing & Application - For your convenience, the CeramAlloy® EBX 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 15 parts Aggregate by volume (5:2:15, 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® EBX 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.

Cleaning Equipment - Wipe excess material from tools immediately. Use acetone, MEK, isopropyl alcohol or similar solvent as needed.

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.

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.