METALCLAD[®] CeramAlloy[®] HTL

- Apply by Brush, Roller or Flexible Applicator
- Requires No Heat
- Unlimited Shelf Life
- 100% Solids
- Safe & Simple To Use

METALCLAD® CeramAliov®
HTL is a High Performance
Polymer Composite for
resurfacing and protecting
all types of fluid flow
equipment from aggressive
erosion and corrosion
damage especially at
elevated temperatures.

Repairs & Protects...

- Heat Exchanger Tube Sheets & Water Boxes
- Pumps
- Valves & Pipework
- Housings & Tanks
- Drum Dryers
- Distillation Units
- Stacks
- Scrubbers
- ...and more

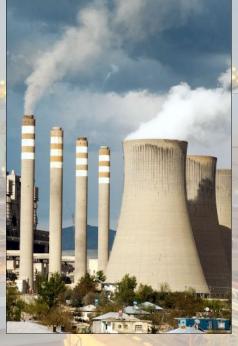
Outstanding erosion/corrosion resistance - even at elevated temperatures!

METALCLAD® CeramAlloy® HTL is a two component, 100% solids, liquid polymer composite used for repairing, resurfacing and coating both damaged and new components to provide outstanding erosion and corrosion resistance at elevated temperatures.

When mixed, CeramAlloy® HTL is a viscous liquid. CeramAlloy® HTL cures to a hard, ceramic-like material with an extremely smooth surface finish. It has been specifically developed for elevated temperature applications.











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

Technical Data							
Volume capacity per kg.	. 38 in ³ / 629 cc						
Mixed density	0.057 lbs per in ³ / 1.59 gm per cc						
Coverage rate per kg.							
@ 12 - 15 mils	14 - 16 ft² / 1.4 m²						
Shelf life	Indefinite						
Volume solids	100%						
Mixing ratio B	Base Activator						
By volume	3 1						
By weight	4.6 1						

M	<i>lorki</i>	ng Life	& Cure 1	'imes		
		oient erature	Working Life	Machining Light Load	Full Mechanical	Chemical Immersion
,	59°F	15°C	1.5 hrs	20 hrs	48 hrs	5 days
	77°F	25°C	40 min	10 hrs	18 hrs	3 days
	86°F	30°C	25 min	7 hrs	15 hrs	2 days

Physical Properties _								
Typical Va	Test Method							
12,000 psi		ASTM D-695						
8,500 psi	595 kg/cm ²	ASTM D-790						
	87							
4000 psi	280 kg/cm ²	ASTM D-1002						
2500 psi	175 kg/cm ²	ASTM D-1002						
3000 psi	210 kg/cm ²	ASTM D-1002						
4100 psi	287 kg/cm ²	ASTM D-1002						
	Typical Va 12,000 psi 8,500 psi 4000 psi 2500 psi 3000 psi	Typical Values 12,000 psi 840 kg/cm² 8,500 psi 595 kg/cm² 87 4000 psi 280 kg/cm² 2500 psi 175 kg/cm² 3000 psi 210 kg/cm²						

Chemical Resistance

 Ammonia (5%)
 EX

 HCL (20%)
 G

 Motor oil
 EX

 NaCl (5%)
 EX

 Sulfuric acid (98%)
 G

 Sulfuric acid (50%)
 EX

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

Temperature Guidelines

Up to:

Dry - 520°F / 270°C Wet - 330°F / 165°C

> We would always recommend that elevated temperature applications be discussed with your local ENECON Fluid Flow Systems Specialist.



Using CeramAlloy® HTL

Surface Preparation - METALCLAD® CeramAlloy® HTL should only be applied to clean, dry and well roughened surfaces.

- 1. Remove all loose material and surface contamination and clean with a suitable solvent which leaves no residue on the surface after evaporation such as acetone, MEK, isopropyl alcohol, etc.
- 2. Clean/roughen surface by abrasive blasting.
- 3. If necessary, apply moderate heat and/or allow the component(s) to 'leach' to remove ingrained contaminants.
- 4. Thoroughly roughen surfaces by abrasive blasting to achieve a 'white metal' degree of cleanliness and an anchor pattern of 3 mils

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 - Since the mixing ratio of the Base and Activator components is CRITICAL, the CeramAlloy® HTL Base and Activator have been supplied in precisely measured quantities. Simply pour the entire contents of the Activator container into the Base container and, using a spatula, putty knife or other appropriate tool, mix thoroughly until the CeramAlloy® HTL reaches a uniform, streak-free color. Apply the mixed material to the prepared surface using a stiff-bristled brush, flexible applicator or roller. As a guide, an even thickness of approximately 12-15 mils per coat should be obtained. A minimum two coat application is required. Overcoating should ideally be performed when the previously applied coat is just surface tacky; and certainly within 8 hours of the previous coat.

Health & Safety - Every effort is made to ensure 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 SHEET (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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