Specialloy*

The Leak Stopper - and More!
The First Choice for Fast, Reliable
Mechanical Repairs.

- Quick Curing
- Trowelable
- Requires No Heat
- Unlimited Shelf Life
- 100% Solids
- Available in unique ENECON® A-Packs'

METALCLAD® SpeedAlloy®

is a quick curing, 100% solids, polymeric 'leak stopper' used for making fast, effective repairs to equipment which must be returned to service almost immediately.

METALCLAD® SpeedAlloy®

has a paste consistency when first mixed then transforms into a metalhard composite in just minutes.

- Pipes & Tanks
- Sumps
- Radiators & Fuel tanks
- Cracked & holed casings
- Damaged keyways
- Stripped threads
- Scored shafts
- Hydraulic rams







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Technical Data					
Volume capacity per 167gm "A Pack"		4.3 in ³ / 72 cc			
Mixed density		0.085 lbs per in ³ / 2.33 gm per co			
Coverage rate	oer "A Pack"				
@ 0.25 in / 6 mm		17.2 in ² / 0.012 m ²			
Shelf life		Indefinite			
Volume solids		100%			
Mixing ratio	Base	Activator			
By volume	1	1			
By weight	2	1			

Cure	Times				
	pient	Working	Machining	Full	Chemical
Tempe	erature	Life	Light Load	Mechanical	Immersion
41°F	5°C	10 min	60 min	2 hrs	72 hrs
59°F	15°C	7 min	45 min	1 hrs	48 hrs
77°F	25°C	5 min	30 min	40 min	36 hrs
86°F	30°C	3 min	20 min	30 min	24 hrs

Physical Properties Typical Values Test Method					
Compressive strength	22,500 psi	1575 kg/cm ²	ASTM D-695		
Flexural strength	16,100 psi	1125 kg/cm ²	ASTM D-790		
Izod impact strength	1.3 ft lbs/in	0.69 j/cm	ASTM D-256		
Hardness - Rockwell	R-90		ASTM D-785		
Hardness - Shore D	84		ASTM D-2240		
Tensile Shear Adhesion					
Steel	2300 psi	161 kg/cm ²	ASTM D-1002		
Aluminum	2100 psi	147 kg/cm ²	ASTM D-1002		
Copper	2250 psi	158 kg/cm ²	ASTM D-1002		
Stainless steel	1800 psi	126 kg/cm²	ASTM D-1002		
Surface resistivity	1 x 10 ¹⁵ ohms		ASTM D-257		
Volume resistivity	1 x 10 ¹⁵ ohm/c	m	ASTM D-257		
Dielectric constant	7.5		ASTM D-150		

Chemical Resistance				
Acetic acid (0-10%) EX Acetic acid (10-20%) G Acetone G Aviation fuel EX Butyl alcohol EX Calcium chloride EX Crude oil EX Diesel fuel EX Ethyl alcohol G	Methyl alcohol			
Gasoline EX Heptane EX	Sodium hydroxide EX Sulfuric acid (0-10%) EX			
Hydrochloric acid (0-10%) EX Hydrochloric acid (10-20%) G Kerosene EX	Sulfuric acid (10-20%) G Toluene G Xylene EX			
EX - Suitable for most applications including immersion. G - Suitable for intermittent contact, splashes, etc.				



Using SpeedAlloy®

Surface Preparation - METALCLAD® SpeedAlloy® 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. If necessary, apply moderate heat to remove ingrained oil and clean again with solvent.
- 3. 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 SpeedAlloy® Base and Activator have been supplied in precisely measured, convenient 'A packs' to simplify mixing. To use this unique 'A pack', remove the divider and mix in the envelope until streak free. Then, cut one corner of the envelope and squeeze the mixed SpeedAlloy® out onto the repair area.

Using an appropriate tool, apply the mixed SpeedAlloy® to the prepared surface, pressing firmly to insure intimate contact and eliminate any air pockets at the bond line or within the material. In all cases, work quickly and deliberately, since SpeedAlloy® is a fast system.

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.

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 MATERIAL SAFETY DATA SHEETS (MSDS) 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.

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