

Revolutionary products . . .

. . . for rebuilding, resurfacing and protecting all types of fluid flow machinery, equipment and structures.

METALCLAD SpeedAlloy™ QS

METALCLAD
SpeedAlloy™ QS

Ultra Fast Curing
Trowelable
Requires No Heat
Unlimited Shelf Life
100% Solids
Safe & Simple To Use

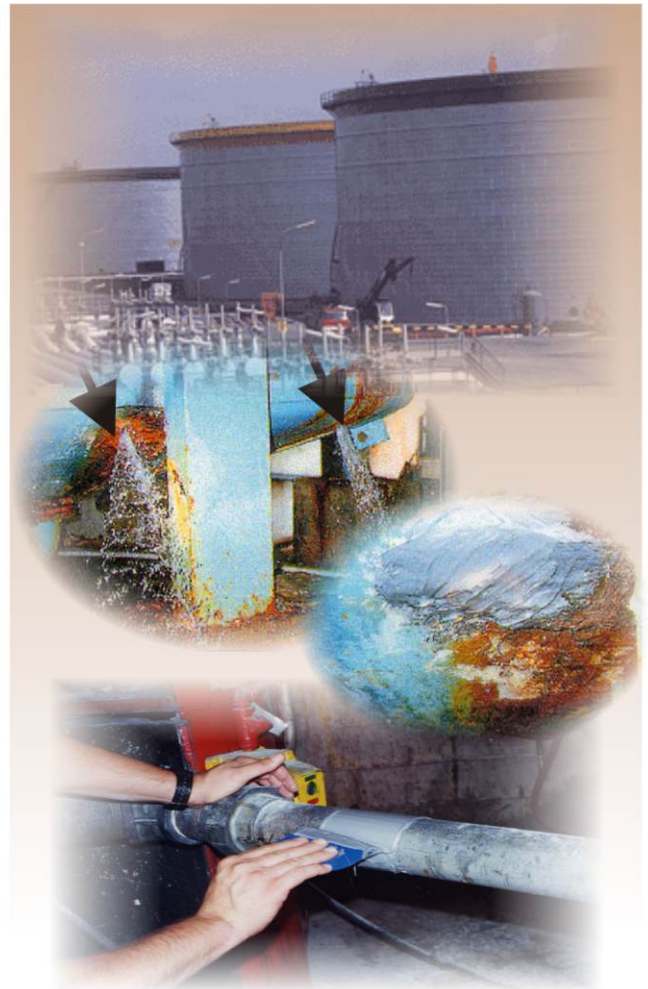
The *Super Fast* Leak Stopper!

Seal leaks in minutes without heat.

METALCLAD SpeedAlloy™ QS begins to harden in just seconds. It is a 100% solids, high performance polymer composite that can be used to make effective repairs to all types of pipes, tanks and equipment which must be returned to service very quickly or where shut downs are not possible.

METALCLAD SpeedAlloy™ QS is a two-component system. The simple 1:1 mixing ratio insures easy mixing. It cures to super tough composite.

- **Pipes & Tanks**
- **Sumps**
- **Radiators & Fuel tanks**
- **Cracked & holed casings**
- **Seams**



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SpeedAlloy™ QS

www.enecon.com

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The Fluid Flow
Systems Specialists.

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Technical Data

Volume capacity per 250 gm unit.	10.5 in ³ / 172 cc	
Mixed density	0.052 lbs per in ³ / 1.45 gm per cc	
Coverage rate per 250 gm unit @ 0.25 in / 6 mm	42 in ² / 0.027 m ²	
Shelf life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	1	1
By weight	1	1

Cure Times

Ambient Temperature	Working Life	Machining Light Load	Full Mechanical	Chemical Immersion
41°F 5°C	5 min	30 min	2 hrs	48 hrs
59°F 15°C	2 min	10 min	1 hrs	36 hrs
77°F 25°C	1 min	5 min	40 min	24 hrs
86°F 30°C	45 sec	3 min	30 min	18 hrs

Physical Properties

	Typical Values		Test Method
Compressive strength	11,000 psi	770 kg/cm ²	ASTM D-695
Hardness - Shore D	80		ASTM D-2240
Tensile Shear Adhesion			
Steel	2100 psi	147 kg/cm ²	ASTM D-1002
Aluminum	1900 psi	133 kg/cm ²	ASTM D-1002
Copper	1800 psi	126 kg/cm ²	ASTM D-1002
Stainless steel	2000 psi	140 kg/cm ²	ASTM D-1002

SpeedAlloy™ QS has an extremely fast initial set up time, making it the ideal material for stopping the flow and effectively plugging virtually any leak. The use of the SpeedAlloy™ QS, therefore, provides time for proper surface preparation and application of either standard SpeedAlloy™ or DurAlloy™ (over the SpeedAlloy™ QS) for a long-term repair.

Your Local ENECON® Fluid Flow Systems Specialist

Using SpeedAlloy™ QS

Surface Preparation - METALCLAD SpeedAlloy™ QS should be applied to clean, dry and well roughened surfaces for maximum adhesion. Under field condition, perform the following steps as best as conditions permit. The better the surface preparation, the better the adhesion.

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.

Mixing and Application - For your convenience, the METALCLAD SpeedAlloy™ QS 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 one part Base and one part Activator by volume (1:1, v:v) on a clean mixing surface. Keep Base and Activator separated until ready to mix and apply.

THIS IS AN EXTREMELY FAST SETTING SYSTEM. SPEEDALLOY™ QS MUST BE MIXED AND APPLIED WITHIN 1 MINUTE.

Using a spatula, putty knife or other appropriate tool, mix thoroughly until all streaks disappear, resulting in a uniform color and consistency. Apply to the area to be plugged or repaired as quickly as possible (within 1 minute). Once the leak is stopped, a long-term repair can be made using standard SpeedAlloy™ or DurAlloy™ over the SpeedAlloy™ QS.

Health and 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.

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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