

# METALCLAD<sup>®</sup> **SpeedAlloy<sup>®</sup> QS**

## The super fast leak stopper!

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

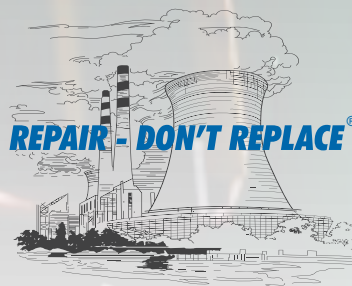
*METALCLAD<sup>®</sup> SpeedAlloy<sup>®</sup> QS* is a two component, 100% solids, high performance polymer composite that can be used to assist in making effective repairs to all types of pipes, tanks and equipment which must be returned to service very quickly or where shut downs are not possible.

*METALCLAD<sup>®</sup> SpeedAlloy<sup>®</sup> QS* has an extremely fast initial set time, making it the ideal material for stopping the flow and effectively plugging active leaks - allowing time for proper surface preparation and the application of ENECON<sup>®</sup>'s standard METALCLAD<sup>®</sup> SpeedAlloy<sup>®</sup> or METALCLAD<sup>®</sup> DurAlloy<sup>®</sup> (over the SpeedAlloy<sup>®</sup> QS) to create a long-term repair.



### Repairs...

- Sumps
  - Radiators & Fuel Tanks
  - Cracked & Holed Casings
  - Seams
- ...and more



**ENECON<sup>®</sup> Corporation**  
The Fluid Flow  
Systems Specialists.

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# Using SpeedAlloy® QS

**Surface Preparation** - METALCLAD® SpeedAlloy® QS should be applied to clean, dry and well roughened surfaces for maximum adhesion. Under field conditions, 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 & 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) firmly pressing the material well into the repair area and holding in place until the leak is stopped. Once the leak is stopped, a long-term repair can be made using standard SpeedAlloy® or DurAlloy® over the SpeedAlloy® QS

**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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## Technical Data

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

## Working Life & Cure Times

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

## Physical Properties

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

**SpeedAlloy® QS has an extremely fast initial set time, making it the ideal material for stopping the flow and effectively plugging active leaks. The use of SpeedAlloy® QS, allows time for proper surface preparation and application of either standard SpeedAlloy® or DurAlloy® (over the SpeedAlloy® QS) for a long-term repair.**

