



## Using SpeedAlloy™ QS

**PLEASE READ THESE INSTRUCTIONS AND MATERIAL SAFETY DATA SHEET (MSDS) CAREFULLY PRIOR TO USE**

METALCLAD® SpeedAlloy™ 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.

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

**Note: SpeedAlloy™ QS is not a 'stand-alone' material. It is used as a tool to assist in making SpeedAlloy™ or DurAlloy™.**

### SURFACE PREPARATION

Maximum adhesion can only be obtained to an optimally prepared surface. However, SpeedAlloy™ QS is merely intended to temporarily stop an active leak in order to permit proper surface preparation around the SpeedAlloy™ QS 'plug' to take place.

### 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 1 part Base and 1 part Activator by volume (1:1, v:v) on a clean mixing surface. Keep Base and Activator separated until ready to mix and apply.

**Note: 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, thoroughly mix the Base and Activator until all streaks disappear, resulting in a uniform color and consistency. Apply to the area (hole or crack) to be plugged or repaired immediately (within 1 minute), firmly pressing the material well into the repair area and holding in place until the leak is stopped.

Once the leak has been plugged, the area should be dried, cleaned and roughened in order to permit the proper application of ENECON®'s standard METALCLAD® SpeedAlloy™ or METALCLAD® DurAlloy™ (over the SpeedAlloy™ QS) to create a long-term repair. Please follow the application instructions outlined in the Instruction Sheet for SpeedAlloy™ or DurAlloy™.

### 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

### Cure Times

Ambient Temperature	Working Life	Light Load	Full Mechanical
41°F 5°C	5 min	30 min	120 min
59°F 15°C	2 min	10 min	60 min
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

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## **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. For further information and guidance, please refer to the detailed MATERIAL SAFETY DATA SHEET (MSDS) supplied with the material and also available on request.

## **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.

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**ENECON**® Corporation  
The Fluid Flow  
Systems Specialists.

6 Platinum Court

Medford, NY 11763-2251

TEL: 516-349-0022 · FAX: 516-349-5522

Toll Free: 888-4-ENECON (888-436-3266)

Email: [info@enecon.com](mailto:info@enecon.com)

**[www.enecon.com](http://www.enecon.com)**