

**100% Solids, High temperature resistant, ceramic reinforced epoxy that protects metal against mild abrasion, corrosion and erosion in elevated temperature immersion. ARC HT-S(E) industrial coating/lining is designed to:**

- Protect and upgrade new and old metal equipment
- Perform in immersed aqueous solution conditions up to 150°C (302°F)
- Replace exotic alloys, engineered plastics, ceramics & conventional coatings
- Easily apply by roller, brush, squeegee, or airless spray

## Application Areas

- Oil/water separators
- Oil/gas separators
- Heat exchangers
- Fans & Housings
- Offshore equipment
- Tanks & vessels
- Desalting vessels
- Pumps
- Valves

## Packaging and Coverage

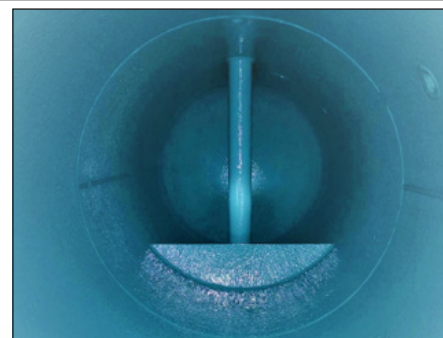
Nominal, based on a 750 µm (30 mil) thickness

- 5 liter kit covers 6.67 m<sup>2</sup> (71.76 ft<sup>2</sup>)
- 16 liter kit covers 21.33 m<sup>2</sup> (229.63 ft<sup>2</sup>)

Note: Components are pre-measured & pre-weighed.

Each kit includes mixing and application instructions.  
5 liter kits include tools.

Colors: Blue or gray



## Features and Benefits

- **Strong, Tough, Durable**
  - Enhances equipment service life
  - Reduces spare part inventory
  - Reduces downtime
- **Incorporates fine-graded sizes of reinforcements**
  - Permeation resistant
  - Resistant to cold wall delamination
  - Resists thermal-mechanical shock
  - Survives rapid decompression
- **Spark testable per NACE SP0188**
  - Easy post application holiday inspection
- **High adhesive strength to metal**
  - Provides long term protection
  - Eliminates under-film corrosion
- **100% solids; no free isocyanates**
  - Enhances Safe use
- **In-situ curing in service at elevated temperature**
  - No post curing needed

Technical Data		<i>(Mechanical property data after elevated temperature cure at 95°C (203°F) for 12 hours)</i>	
Composition	Matrix	A two component, modified epoxy resin reacted with an aliphatic amine curing agent	
	Reinforcement ( <i>Proprietary</i> )	Ceramic and mineral particles to increase modulus and retard blistering while offering resistance to erosive flow	
Cured Density		1.7 gm/cc	103 lb/ cu.ft.
Compressive Strength	(ASTM D 695)	1,024 kg/cm <sup>2</sup> (100 MPa)	14,600 psi
Flexural Strength	(ASTM D 790)	491 kg/cm <sup>2</sup> (48 MPa)	7,000 psi
Flexural Modulus	(ASTM D 790)	4.4 x 10 <sup>4</sup> kg/cm <sup>2</sup> (4,270 MPa)	6.2 x 10 <sup>5</sup> psi
Pull-Off Adhesion	(ASTM D 4541)	351 kg/cm <sup>2</sup> (34.5 MPa)	5,000 psi
Tensile Strength	(ASTM D 638)	309 kg/cm <sup>2</sup> (30 MPa)	4,400 psi
Tensile Elongation	(ASTM D 638)	2.7%	
Shore D Durometer Hardness	(ASTM D 2240)	88	
Vertical Sag Resistance, at 21°C (70°F) and 400 µm (16 mil)		No sag	
Maximum Temperature (Dependent on service)	Wet Service Dry Service	150°C 175°C	302°F 347°F
Shelf life (unopened containers)	3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		