

**100% Solids, High temperature resistant, ceramic reinforced abrasion epoxy that protects metal against mild abrasion, corrosion and erosion in elevated temperature immersion. ARC HT-S 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 VOCs; no free isocyanates**
  - Enhances Safe use
- **In-situ curing in service at elevated temperature**
  - No post curing needed

Technical Data		(Mechanical property data after elevated temperature cure at 95°C (203°F) for 12 hours)	
Composition	Matrix	A two component, modified epoxy resin reacted with an aliphatic amine curing agent	
	Reinforcement (Proprietary)	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)	1,080 kg/cm <sup>2</sup> (106 MPa)	15,400 psi
Flexural Strength	(ASTM D 790)	407 kg/cm <sup>2</sup> (39.9 MPa)	5,800 psi
Flexural Modulus	(ASTM D 790)	3.2 x 10 <sup>4</sup> kg/cm <sup>2</sup> (3,100 MPa)	4.5 x 10 <sup>5</sup> psi
Pull-Off Adhesion	(ASTM D 4541)	365.4 kg/cm <sup>2</sup> (35.9 MPa)	5,200 psi
Tensile Strength	(ASTM D 638)	316 kg/cm <sup>2</sup> (31 MPa)	4,500 psi
Tensile Elongation	(ASTM D 638)	2.2%	
Shore D Durometer Hardness	(ASTM D 2240)	88	
Vertical Sag Resistance, at 21°C (70°F) and 500 µm (20 mil)		No sag	
Maximum Temperature (Dependent on service)	Wet Service	150°C	302°F
	Dry Service	175°C	347°F
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		