

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 m² (71.76 ft²)
- 16 liter kit covers 21.33 m² (229.63 ft²)

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		<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)	1,080 kg/cm ² (106 MPa)	15,400 psi
Flexural Strength	(ASTM D 790)	407 kg/cm ² (39.9 MPa)	5,800 psi
Flexural Modulus	(ASTM D 790)	3.2 x 10 ⁴ kg/cm ² (3,100 MPa)	4.5 x 10 ⁵ psi
Pull-Off Adhesion	(ASTM D 4541)	365.4 kg/cm ² (35.9 MPa)	5,200 psi
Tensile Strength	(ASTM D 638)	316 kg/cm ² (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]		