

Product Datasheet: ARC HT-S(E)

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 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 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)	1,024 kg/cm ² (100 MPa)	14,600 psi
Flexural Strength	(ASTM D 790)	491 kg/cm ² (48 MPa)	7,000 psi
Flexural Modulus	(ASTM D 790)	4.4 x 10 ⁴ kg/cm ² (4,270 MPa)	6.2 x 10 ⁵ psi
Pull-Off Adhesion	(ASTM D 4541)	351 kg/cm ² (34.5 MPa)	5,000 psi
Tensile Strength	(ASTM D 638)	309 kg/cm² (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]		



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