

100% solids, ceramic reinforced abrasion resistant epoxy that protects metal against mild abrasion, corrosion and erosion in elevated temperature immersion. ARC HT-T industrial coating is designed to:

- Rebuild and protect new and old metal equipment
- Perform in immersed aqueous solution conditions up to 110°C (230°F)
- Easily apply by trowel

Application Areas

- Oil/water separators
- Oil/gas separators
- Heat exchangers
- Pressure vessels
- Tanks & vessels
- Desalting vessels
- Pumps
- Valves
- Crystalizers

Packaging and Coverage

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

- 5 liter kit covers 6.67 m² (71.76 ft²)

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

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

Colors: Black or green



Features and Benefits

- **Strong, Tough, Durable**
 - Extends equipment lifetime
 - Reduces downtime
- **Incorporates fine-graded sizes of reinforcements**
 - Permeation & blister resistance
 - Resists cold wall delamination
- **Spark testable per NACE SP0188**
 - Easy inspection
- **High adhesive strength**
 - Provides reliable performance
 - No underfilm corrosion
- **100% solids; no VOCs; no free isocyanates**
 - Enhances safe use
 - No Shrinkage on cure

Technical Data		<i>(Mechanical property data after elevated temperature cure at 95°C (203°F) for 12 hours)</i>	
Composition	Matrix	A modified epoxy resin reacted with a cycloaliphatic amine curing agent	
	Reinforcement (<i>Proprietary</i>)	Blend of ceramics providing exceptional permeation, erosion and corrosion resistance	
Cured Density		2.22 gm/cc	137.32 lb/ cu.ft.
Compressive Strength	(ASTM D 695)	949 kg/cm ² (93 MPa)	13,500 psi
Flexural Strength	(ASTM D 790)	548 kg/cm ² (53.7 MPa)	7,800 psi
Flexural Modulus	(ASTM D 790)	1.19 x 10 ⁵ kg/cm ² (11.7 x 10 ³ MPa)	1.7 x 10 ⁶ psi
Pull-Off Adhesion	(ASTM D 4541)	316.9 kg/cm ² (31.1 MPa)	4,510 psi
Tensile Elongation	(ASTM D 638)	3.6%	
Impact Resistance	(direct)	9.03 N·m	80 in·lb
	(reverse)	4.5 N·m	40 in·lb
Hardness Shore D	(ASTM D 2240)	90	
Vertical Sag Resistance, at 21°C (70°F) and 1.25 mm (50 mil)		No sag	
Linear Coefficient of Thermal Expansion in temperature range of 25°C-110°C (77°F-230°F) in temperature range of 125°C-150°C (257°F-302°F)	(ASTM E 228)	30.2 x 10 ⁻⁶ mm/mm-°C	16.8 x 10 ⁻⁶ in/in-°F
		90.3 x 10 ⁻⁶ mm/mm-°C	50.1 x 10 ⁻⁶ in/in-°F
Maximum Temperature (Dependent on service)	Wet Service	110°C	230°F
	Dry Service	150°C	302°F
Shelf life (unopened containers)		2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]	