# Product Datasheet: ARC HT-T(E)

***100% solids, ceramic reinforced abrasion resistant epoxy that protects metal against mild abrasion, corrosion and erosion in elevated temperature immersion. ARC HT-T(E) 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 $m^2$ (71.76 $ft^2$)

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** | *(Mechanical property data after elevated temperature cure at 95°C (203°F) for 12 hours)* | | |
|---|---|---|---|
| Composition — Matrix | A modified epoxy resin reacted with a cycloaliphatic amine curing agent | | |
| Reinforcement *(Proprietary)* | Blend of ceramics providing exceptional permeation, erosion and corrosion resistance | | |
| Cured Density | | 2.2 gm/cc | 136.1 lb/ cu.ft. |
| Compressive Strength | (ASTM D 695) | 1,230 kg/$cm^2$ (120.5 MPa) | 17,500 psi |
| Flexural Strength | (ASTM D 790) | 569 kg/$cm^2$ (55.8 MPa) | 8,100 psi |
| Flexural Modulus | (ASTM D 790) | 0.7 x $10^5$ kg/$cm^2$ (6.9 x $10^3$ MPa) | 1.0 x $10^6$ psi |
| Pull-Off Adhesion | (ASTM D 4541) | 309 kg/$cm^2$ (30.3 MPa) | 4,400 psi |
| Tensile Elongation | (ASTM D 638) | 3.8% | |
| Impact Resistance (direct) | (ASTM D 2794) | 18.1 N·m | 160 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) | 28.4 x $10^{-6}$ mm/mm-°C 90.6 x $10^{-6}$ mm/mm-°C | 15.8 x $10^{-6}$ in/in-°F 50.3 x $10^{-6}$ in/in-°F |
| Maximum Temperature (Dependent on service) | Wet Service Dry Service | 110°C 150°C | 230°F 302°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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