Product Datasheet: ARC S2(E)

100% solids, ceramic reinforced thin film coating to protect structures against erosion, abrasion, and corrosion. ARC S2(E) industrial coating is designed to:

- Protect against corrosion and erosion
- Provide improved material flow properties
- Apply by brush, roller, airless or plural component spraying

Application Areas

- Tank lining
- Structural steel
- Pipe ID & OD
- Fans & housings
- Condensers
- Heat exchangers
- Hoppers
- Absorber modules
- Pumps & valves

Packaging and Coverage

Nominal, based on 375 µm (15 mil)

- 1125 ml cartridge covers 3.00 m^2 (32.29 ft^2)
- 1.5 liter kit covers 4.00 m^2 (43.0 ft^2)
- 5 liter kit covers 13.33 m^2 (143.5 ft^2)
- 16 liter kit covers 42.67 m^2 (459.2 ft^2)

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

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

Color: Gray or Green

Features and Benefits

- **Abrasion resistant surface**
  - Extends equipment life
  - Reduces downtime
- **High gloss, low drag surface**
  - Improves material flow
  - Enhances efficiency
- **High adhesive strength**
  - Prevents underfilm corrosion
- **100% solids; no VOCs; no free isocyanates**
  - Enhances safe use
  - No shrinkage on cure
  - Resists permeation
- **Low viscosity: brush, roller or spray applied coating**
  - Easy to apply
  - Saves repair time

Technical Data

Composition — Matrix	A modified epoxy resin reacted with an aliphatic curing agent		
Composition — Reinforcement	Proprietary blend of fine ceramic reinforcements		
Cured Density		1.5 g/cc	94 lb/ cu.ft.
Compressive Strength	(ASTM D 695)	830 kg/cm^2 (81.4 MPa)	11,800 psi
Flexural Strength	(ASTM D 790)	422 kg/cm^2 (41.4 MPa)	6,000 psi
Tensile Adhesion	(ASTM D 4541)	436 kg/cm^2 (42.8 MPa)	6,200 psi
Tensile Strength	(ASTM D 638)	362 kg/cm^2 (35.5 MPa)	5,150 psi
Tensile Elongation	(ASTM D 638)	3.2%	
Flexural Modulus	(ASTM D 790)	4.1 x 10^4 kg/cm^2 (4000 MPa)	5.8 x 10^5 psi
Shore D Durometer Hardness	(ASTM D 2240)	87	
Vertical Sag Resistance, at 21°C (70°F) and 0.75 mm (30 mils)		No sag	
Cathodic Disbondment	(ASTM G 8)	Passes	
Taber Wear CS-17/1000 cycles/1 kg load	(ASTM D 4060)	58 mg loss	
Maximum Temperature (Dependent on service)	Wet Service Dry Service	52°C 80°C	125°F 175°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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