

**100% solids, ceramic reinforced thin film coating to protect structures against erosion, abrasion, and corrosion. ARC S2 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<sup>2</sup> (32.29 ft<sup>2</sup>)
- 1.5 liter kit covers 4.00 m<sup>2</sup> (43 ft<sup>2</sup>)
- 5 liter kit covers 13.33 m<sup>2</sup> (143.52 ft<sup>2</sup>)
- 16 liter kit covers 42.67 m<sup>2</sup> (459.26 ft<sup>2</sup>)

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	
	Reinforcement	Proprietary blend of fine ceramic reinforcements	
Cured Density		1.6 g/cc	99 lb/ cu.ft.
Compressive Strength	(ASTM D 695)	910 kg/cm <sup>2</sup> (89.3 MPa)	12,950 psi
Flexural Strength	(ASTM D 790)	520 kg/cm <sup>2</sup> (51 MPa)	7,400 psi
Tensile Adhesion	(ASTM D 4541)	435 kg/cm <sup>2</sup> (42.7 MPa)	6,200 psi
Tensile Strength	(ASTM D 638)	341 kg/cm <sup>2</sup> (33.4 MPa)	4,850 psi
Tensile Elongation	(ASTM D 638)	2.7%	
Flexural Modulus	(ASTM D 790)	4.3 x 10 <sup>4</sup> kg/cm <sup>2</sup> (4205 MPa)	6.1 x 10 <sup>5</sup> psi
Shore D Durometer Hardness	(ASTM D 2240)	85	
Vertical Sag Resistance, at 21°C (70°F) and 0.25 mm (10 mils)		No sag	
Cathodic Disbondment	(ASTM G 8)	Passes	
Taber Wear CS-17/1000 cycles/1 kg load	(ASTM D 4060)	60 mg loss	
Maximum Temperature (Dependent on service)	Wet Service	52°C	125°F
	Dry Service	80°C	175°F
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		