

## Brush-Roll-Spray Applied Moderate Chemical Resistant Coating

A mineral-reinforced thin film, 100% solids coating to protect structures against chemical and corrosion attack. ARC S1 is a low viscosity sprayable coating which can also be applied by roller or brush. When cured ARC S1 is designed to:

- Provide excellent barrier protection
- Dramatically outlast conventional paints and coatings
- Be high voltage spark tested per NACE SP 0188

### Application Areas

- Above Ground Storage Tanks
- Clarifier Tanks
- Hydrocarbon Storage Tank
- Structural Steel
- Cooling Water Systems
- Thickener Tanks

### Packaging and Coverage

Nominal, based on total DFT 250 µm (10 mils)  
2 coats required

- 16 liter kit covers 64 m<sup>2</sup> (689 ft<sup>2</sup>)
- Note: Components are pre-measured and pre-weighed.

Color: Light gray or blue

Product Availability: Latin America



### Features and Benefits

- **High dielectric resistivity**
  - Allows spark testing per NACE SP0188
- **Low viscosity**
  - Easily applied
- **High gloss finish**
  - Increases equipment efficiency
- **Excellent adhesion**
  - No underfilm corrosion

### Technical Data

Composition	Matrix	A modified epoxy resin reacted with polyamidoamine curing agent	
	Reinforcement	Proprietary blend of surface modified minerals	
Cured Density		1.5 g/cc	94 lb/ cu.ft.
Flexural Strength	(ASTM D 790)	420 kg/cm <sup>2</sup> (41.2 MPa)	6000 psi
Tensile Adhesion	(ASTM D 4541)	240 kg/cm <sup>2</sup> (23.4 MPa)	3400 psi
Tensile Strength	(ASTM D 638)	240 kg/cm <sup>2</sup> (23.4 MPa)	3400 psi
Tensile Elongation	(ASTM D 638)	3%	
Flexural Modulus	(ASTM D 790)	2.0 x 10 <sup>4</sup> kg/cm <sup>2</sup> (1961 MPa)	2.8 x 10 <sup>5</sup> psi
Composite Shore D Durometer Hardness	(ASTM D 2240)	85	
Heat Deflection Temperature	(ASTM D 648)	46°C	115°F
Vertical Sag Resistance, at 21°C (70°F) and 250 µ (10 mils)		No sag	
Maximum Temperature (Dependent on service)	Wet Service Dry Service	52°C 80°C	125°F 175°F
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		