

## Product Datasheet: ARC S4+



# 100% solids, advanced reinforced thin film coating to protect structures against extreme chemical attack and corrosion. ARC S4+ industrial coating is designed to:

- Protect against extreme chemical attack in immersion
- Provide extended wear resistance
- Apply by brush, roller, airless or plural component spraying

#### **Application Areas**

- Exhaust gas ductwork
- Heat exchangers
- Chemical storage tanks
- Fans and housings
- Chimneys & stacks
- Tank linings

### Packaging and Coverage

Nominal based on DFT 375  $\mu m$  (15 mil) Typically applied as 2-Coat System

- 1125 ml cartridge covers 3.00 m² (32.30 ft²)
- 5 liter kit covers 13.33 m² (143.52 ft²)
- 16 liter kit covers 42.70 m² (459.30 ft²)

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

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

Colors: Gray or red





#### **Features and Benefits**

- Multi-functional chemistry
  - Resists concentrated chemicals
- High cross-link density
  - Permeation resistant
  - Improved thermal stability
  - Enhanced mechanical properties
- Spark testable per NACE SP0188
  - Easy post application inspectionFacilitates quality assurance
- High adhesive strength
  - No underfilm corrosion
- 100% solids; no VOCs; no free isocyanates
  - Enhances safe use

Composition Matrix	A modified epoxy resin re	A modified epoxy resin reacted with a modified cycloaliphatic amine curing agent		
	Proprietary blend of surface modified mineral reinforcements			
Reinforcement	Proprietary pierra of surface modified fillifieral fellilorceffielits			
Cured Density		1.3 g/cc	81 lb/ cu.ft.	
Flexural Strength	(ASTM D 790)	280 kg/cm² (27.6 MPa)	4,000 psi	
Pull-Off Adhesion	(ASTM D 4541)	330 kg/cm² (32.4 MPa)	4,700 psi	
Tensile Strength	(ASTM D 638)	250 kg/cm <sup>2</sup> (24.1 MPa)	3,500 psi	
Tensile Elongation	(ASTM D 638)	7%		
Flexural Modulus	(ASTM D 790)	1.8 x 10 <sup>4</sup> kg/cm <sup>2</sup> (1765 MPa)	2.5 x 10 <sup>5</sup> psi	
Shore D Durometer Hardness	(ASTM D 2240)	83		
Vertical Sag Resistance, at 21°C (70°F) and 250 μm (10 mil)		No sag		
Maximum Temperature (Dependent on service)	Wet Service Dry Service Post Cure Wet Service	60°C 150°C 95°C	140°F 300°F 203°F	
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]			



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