

## Product Datasheet: ARC S1PW

100% solids, reinforced thin film coating to protect structures against chemical, erosion and corrosion attack. ARC S1PW is certified for cold water service requiring NSF 61 certification. ARC S1PW is designed to:

- Provide excellent barrier protection against erosion, corrosion and chemical attack
- Meet all requirements of NSF 61 for potable, cold water service
- Easily apply by brush, roller or plural component spray

## **Application Areas**

- Crude oil storage tanks
- Chemical storage tanks
- Wastewater clarifiers
- Structural Steel
- Thickener tanks
- Cooling water systems
- Potable water pumps, valves and fittings



## Packaging and Coverage

Nominal based on a 375  $\mu m$  (15 mil) DFT

- 1125 ml cartridge covers 3.00 m² (32.30 ft²)
- 5 liter kit covers 13.33 m² (143.52 ft²)
- 16 liter kit covers 42.67 m² (459.26 ft²)

Note: Components are pre-measured & pre-weighed. Each kit includes mixing and application instructions. 5 liter kit includes tools.

Colors: White or blue



## **Features and Benefits**

- Ceramic reinforced
  - Resists erosion
- High dielectric resistivity
  - Allows spark testing per NACE SP0188
- Low viscosity
  - Easy to apply
- Low surface energy
  - Improves efficient flow
- Excellent adhesion
  - No underfilm corrosion
- Compliant to NSF 61 standard for cold water service
  - Non-contaminating formulation



Technical D	Data				
Composition	Matrix	A modified epoxy resin reacted with polyamidoamine curing agent			
	Reinforcement (Proprietary)	Blend of fine aluminum o coupling agent	Blend of fine aluminum oxide powders & micro glass flakes treated with polymeric coupling agent		
Cured Density			1.59 g/cc	92 lb/ cu.ft.	
Compressive Strength		(ASTM D 695)	715 kg/cm² (70.1 MPa)	10,180 psi	
Flexural Strength		(ASTM D 790)	669 kg/cm² (65.6 MPa)	9,520 psi	
Flexural Modulus		(ASTM D 790)	3.9 x 10 <sup>4</sup> kg/cm <sup>2</sup> (3.7 x 10 <sup>3</sup> MPa)	5.4 x 10 <sup>5</sup> psi	
Pull-Off Adhesion Metal		(ASTM D 4541)	477 kg/cm² (46.8 MPa)	6,790 psi	
Tensile Elongation		(ASTM D 648)	3.15%		
Shore D Durometer Hardness		(ASTM D 2240)	87		
Vertical Sag Resistance, at 21°C (70°F) and 250 μm (10 mils)			No sag		
Maximum Temperature (Dependent on service)		Wet Service (NSF 61) Dry Service (General) Wet Service (General)	23°C 62°C 52°C	75°F 144°F 126°F	
Shelf life (unoper	ned containers)	1 year [stored between 10	1 year [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



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