

General Purpose, Sprayable, Corrosion Protection Coating

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 600 compliance and 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 tanks, pipes, pumps, valves and fittings

Packaging and Coverage

Nominal based on a 375 µm (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 and 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**
 - Complies with NSF/ANSI/CAN 600
 - Non-contaminating formulation

Technical Data

| | | | |
|--|--|---|---------------------------|
| Composition | Matrix | A modified epoxy resin reacted with polyamidoamine curing agent | |
| | Reinforcement (<i>Proprietary</i>) | 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/cm ² (70.1 MPa) | 10,180 psi |
| Flexural Strength | (ASTM D 790) | 669 kg/cm ² (65.6 MPa) | 9,520 psi |
| Flexural Modulus | (ASTM D 790) | 3.9 x 10 ⁴ kg/cm ² (3.7 x 10 ³ MPa) | 5.4 x 10 ⁵ psi |
| Pull-Off Adhesion | Metal (ASTM D 4541) | 477 kg/cm ² (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-CLD 23) Dry Service (General) Wet Service (General) | 62°C 52°C | 144°F 126°F |
| Shelf life (unopened containers) | 1 year [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility] | | |