# 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 tanks, pipes, pumps, valves and fittings

## Packaging and Coverage

Nominal based on a 375 µm (15 mil) DFT

- 1125 ml cartridge covers 3.00 $m^2$ (32.30 $ft^2$)
- 5 liter kit covers 13.33 $m^2$ (143.52 $ft^2$)
- 16 liter kit covers 42.67 $m^2$ (459.26 $ft^2$)

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

NSF®
Certified to NSF/ANSI 61

## Technical Data

| | | | |
|---|---|---|---|
| Composition — Matrix | A modified epoxy resin reacted with polyamidoamine curing agent | | |
| Reinforcement *(Proprietary)* | 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) | $3.9 \times 10^4$ $kg/cm^2$ ($3.7 \times 10^3$ MPa) | $5.4 \times 10^5$ 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)<br>Dry Service (General)<br>Wet Service (General) | <br>62°C<br>52°C | <br>144°F<br>126°F |
| Shelf life (unopened containers) | 1 year [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility] | | |

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