

## Sprayable, Ceramic-Reinforced Coating

**100% solids, advanced reinforced thin film coating to protect structures and equipment in extreme immersion services. ARC SD4i industrial coating is designed to:**

- Protect against corrosion and erosion
- Provide extended protection in aggressive chemical immersion services
- Apply by brush, roller, airless or plural component spraying

## Application Areas

- Flotation cells
- Thickener tanks
- Hydrocyclones
- Deaerators
- Hoppers
- Slurry pipes
- Heat exchangers
- Slurry tanks
- Bins and silos
- Pumps and Fans

## Packaging and Coverage

Nominal, based on 1 coat; total DFT 375  $\mu\text{m}$  (15 mil)

- 1125 ml cartridge covers 3.00 m<sup>2</sup> (32.30 ft<sup>2</sup>)
- 5 liter kit covers 13.33 m<sup>2</sup> (143.52 ft<sup>2</sup>)
- 16 liter kit covers 42.67 m<sup>2</sup> (459.26 ft<sup>2</sup>)

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

Color: Gray or Blue



## Features and Benefits

- **Abrasion resistant surface**
  - Extends equipment life
  - Reduces spare parts
  - Reduces downtime
- **High gloss, low drag surface**
  - Improves material flow
  - Enhances efficiency
  - Resists MIC attack
- **High adhesive strength**
  - Prevents underfilm corrosion
- **100% solids; no VOC's; no free isocyanates**
  - Enhances safe use
  - No shrinkage on cure
  - Resists permeation
- **Low viscosity, thin film, brush, roller and spray applied**
  - Easy to apply
  - Saves repair time

## Technical Data

Composition	Matrix	A modified epoxy resin structure reacted with an aliphatic amine curing agent		
	Reinforcement	Proprietary blend of fine ceramic reinforcements		
Cured Density		1.8 g/cc	112 lb/ cu.ft.	
Flexural Strength	(ASTM D 790)	640 kg/cm <sup>2</sup> (62.7 MPa)	9,100 psi	
Pull-Off Adhesion	(ASTM D 4541)	241 kg/cm <sup>2</sup> (23.7 MPa)	3,430 psi	
Tensile Strength	(ASTM D 638)	270 kg/cm <sup>2</sup> (26.4 MPa)	3,800 psi	
Tensile Elongation	(ASTM D 638)	2.8%		
Flexural Modulus	(ASTM D 790)	6.2x10 <sup>4</sup> kg/cm <sup>2</sup> (6,080 MPa)	8.8 x 10 <sup>5</sup> psi	
Shore D Durometer Hardness	(ASTM D 2240)	85		
Vertical Sag Resistance, at 21°C (70°F) and 250 $\mu$ (10 mil)		No sag		
Taber Wear H-18/1000 cycles/1 kg load	(ASTM D 4060)	0.26 g loss		
Maximum Temperature (Dependent on service)	Wet Service Dry Service	65°C 120°C	149°F 248°F	
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]			