

Product Datasheet: ARC SD4i RC

Sprayable, Ceramic-Reinforced Coating

100% solids, rapid cure, advanced reinforced thin film coating to protect structures and equipment in extreme immersion services.

ARC SD4i RC industrial coating is designed to:

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

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 µm (15 mil)

- 940 ml cartridge covers 2.51 m² (27 ft²)
- 0.75 liter kit covers 2.0 m² (21.5 ft²)

Note: Components are pre-measured and pre-weighted.

Each kit includes mixing and application instructions.

Color: 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
 - Helps prevent underfilm corrosion
- 100% solids; no VOCs; 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	A modified epoxy resin structure reacted with an aliphatic amine curing agent		
Reinforcement	Proprietary blend of fin	Proprietary blend of fine ceramic reinforcements		
Cured Density		1.8 g/cc	112 lb/ cu. ft.	
Flexural Strength	(ASTM D 790)	719 kg/cm² (70.5 MPa)	10,220 psi	
Pull Off Adhesion	(ASTM D 4541)	330 kg/cm ² (32.4 MPa)	4700 psi	
Tensile Strength	(ASTM D 638)	303 kg/cm ² (29.7 MPa)	4310 psi	
Tensile Elongation	(ASTM D 638)	0.33%		
Flexural Modulus	(ASTM D 790)	9.2 x 10 ⁴ kg/cm ² (9032 MPa)	13.1 x 10⁵ psi	
Shore D Durometer Hardness	(ASTM D 2240)	85		
Vertical Sag Resistance, at 21°C (70°F) and 250 μ (10 mil)		No sag		
Taber Wear CS17/1000 cycles/1 kg load	(ASTM D 4060)	118 mg 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	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



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