

Product Datasheet: ARC SD4i

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 cellsThickener tanks
- Hoppers
- Slurry pipes

Heat exchangers

- Hydrocyclones
- Deaerators

Packaging and Coverage

Nominal, based on 1 coat; total DFT 375 µm (15 mil)

- 0.75 liter kit covers 2.00 m² (21.53 ft²)
- 1125 ml cartridge covers 3.00 m² (32.30 ft²)
- 1.5 liter kit covers 4.00 m² (43.06 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.

Color: Gray or Blue



Slurry tanks

Bins and silos

Pumps and Fans



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 res	A modified epoxy resin structure reacted with an aliphatic amine curing agent		
Reinforcement	Proprietary blend of f	Proprietary blend of fine ceramic reinforcements		
Cured Density		1.8 g/cc	112 lb/ cu.ft.	
Flexural Strength	(ASTM D 790)	640 kg/cm² (62.7 MPa)	9100 psi	
Pull-Off Adhesion	(ASTM D 4541)	241 kg/cm² (23.7 MPa)	3430 psi	
Tensile Strength	(ASTM D 638)	270 kg/cm² (26.4 MPa)	3800 psi	
Tensile Elongation	(ASTM D 638)	2.8%		
Flexural Modulus	(ASTM D 790)	6.2 x 10 ⁴ kg/cm ² (6080 MPa)	8.8 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)	107 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 betwe	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



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