

FDA compliant, thin film, corrosion resistant barrier coating

ARC S3 is suited for corrosive applications including those where direct food contact exposures is a requirement. This ceramic reinforced, 100% solids coating is tough enough to perform in both static and erosive flow conditions and complies with 21 CFR 175.300 for direct food contact exposures.

S3 is designed to:

- Provides excellent barrier protection against erosion, corrosion, and chemical attack.
- Easily applied by brush, roller, or spray.

Application Areas

- Storage tanks
- Process equipment
- Structural steel
- Conveyors Chutes
- Rail cars
- Packaging and Coverage

Nominal based on 375 μm (15 mil) DFT

- 940 ml cartridge covers 2.5 M² (27 ft²)
- 5-liter kit covers 13.33 M² (143.5 ft²)
- 16-liter kit covers 42.7 M² (459.3 ft²)

Note: Components are pre-measured and pre-weighed to correct mix ratio. Each kit contains Part A&B, mixing and application tools

and application instructions Color: White or blue

Suited for direct food contact exposures

in compliance with 21 CFR 175.300 -

Resinous and polymeric coatings.



Features and Benefits

- Ceramic reinforcement resists erosion
- Spark testable for pinhole free verification
- Complies to 21 CFR 175.300 Condition B&C
 - Acidic solution ≤pH5
 - Aqueous (acid/non-acid)
 - Dairy and bakery products
 - Oils and fats, dry solids

Technical Data				
Composition Matrix	A modified epoxy resin reacted v	A modified epoxy resin reacted with an aliphatic amine curing agent		
Reinforcement	Propriety blend of fine ceramic re	Propriety blend of fine ceramic reinforcements		
Cured Density		1.59 g/cc	13.3 lbs./gallon	
Compressive Strength	(ASTM D 695)	1019 kg/cm2 (100 MPa)	14,500 psi	
Tensile Adhesion	ASTM D4541	309 kg/cm2 (30.3 MPa)	4,400 psi	
Flexural Strength	ASTM D790	619 kg/cm2 (60.7 MPa)	8,800 psi	
Flexural Modulus	ASTM D790	7.45 x 10^4 Kg/cm2 (7308 MPa)	10.6 x 10^5 psi	
Tensile Strength	ASTM D638	295 kg/cm2 (29 MPa)	4,200 psi	
Tensile Elongation	ASTM D2370	4.7%	4.7%	
Impact Resistance	ASTM D2794	>217 N-m	>160 in pounds	
Taber Wear	ASTM D4060 (CS17/1kg/1000)		23 mg	
Shore D Durometer Hardness	ASTM D2240		88	
Maximum Temperature (Dependent on service)	Wet Service Dry Service	52°C 74°C	125°F 165°F	
Shelf Life (unopened containers)	2 years [stored between 10°C (50	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



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