

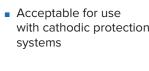
Product Datasheet: ARC S1HB

High Build, Single Coat, Edge-Retentive Barrier Coating

ARC S1HB is a mineral reinforced, amidoamine cured modified epoxy lining for the protection of metallic and cementitious surfaces from corrosive exposures. Its high build, edge retentive nature provides maximum coverage over hard 90° edges and corners with minimal thinning at the sharp edge.

Application Areas

- Crude oil storage tanks
- Chemical storage tanks
- Thickener tanks
- Pipelines/penstocks
- Wastewater clarifiers
- Grit chambers
- Wet wells/junction boxes
- Manholes
- with cathodic protection systems



Packaging and Coverage

Nominal based on 750 µm (30 mil) DFT

- 1125 ml cartridge covers 1.5 m² (16.1 ft²)
- 60 liter kit covers 80 m² (850 ft²)
- 600 liter kit covers 800 m² (8500 ft²)

Note: Each kit is comprised of two equal size units of Part A and one equal size unit of Part B

Colors: Light Gray



Features and Benefits

- High build capability
 - Allows for one coat application
 - Greater than 70% edge retention
 - Resists MIC attack
- 100% solids
 - Low VOC's
 - Low odor
- High dielectric properties
 - Allows for high voltage spark testing per NACE SP 0188
- Amidoamine curative
- Cures and bonds to damp and marginally prepared surfaces
- 2:1 mix ratio
 - Simplifies heated plural component spray application
- Fluorescent pigmentation visible under UV light source
 - Allows for in process QC

Composition Matrix	A modified epoxy blend reacted with an amidoamine curing agent		
Reinforcements	A blend of mineral fillers and thixotropic agents		
Cured Density	(ASTM D1475)	1.4 g.cc	11.6 lb/gal
Compressive Strength	(ASTM D695)	815 kg/cm² (79.9 MPa)	11600 psi
Tensile Strength	(ASTM D638)	450 kg/cm² (44.1 MPa)	6400 psi
Tensile Elongation	(ASTM D638)		4.5%
Pull Off Adhesion Metal Concrete		>309 kg/cm² (>30 MPa) >28 kg/cm² (>2.7 MPa)	4400 psi 400 psi
Flexural Strength	(ASTM D790)	478 kg/cm² (46.8 MPa)	6800 psi
Flexural Modulus	(ASTM D790)	3.0 x 10 ⁴ kg/cm ² (2952 MPa)	4.28 x 10 ⁵ psi
Cathodic Disbondment	(ASTM G8)		1 mm
Water Absorption	(ASTM D570)		1.1%
Water Vapor Transmission	(ASTM E96)	165 gram/M²/24 hr	9.9 grain/Ft²/24 hour
Dielectric Strength	(ASTM D149)	>35.4v/Micron	>900v/mil
Shore D Hardness	(ASTM D2240)		85
Vertical Sag Resistance		>3 mm	>120 mil
Maximum Temperature (Dependent on service)	Wet Dry	52°C 80°C	125°F 175°F



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