

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
- Acceptable for use 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

Technical Data

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
Compressive Strength		(ASTM D695)	815 kg/cm ² (79.9 MPa)
Tensile Strength		(ASTM D638)	450 kg/cm ² (44.1 MPa)
Tensile Elongation		(ASTM D638)	4.5%
Pull Off Adhesion	Metal		>309 kg/cm ² (>30 MPa)
	Concrete		>28 kg/cm ² (>2.7 MPa)
Flexural Strength		(ASTM D790)	478 kg/cm ² (46.8 MPa)
Flexural Modulus		(ASTM D790)	3.0 x 10 ⁴ kg/cm ² (2952 MPa)
Cathodic Disbondment		(ASTM G8)	1 mm
Water Absorption		(ASTM D570)	1.1%
Water Vapor Transmission		(ASTM E96)	165 gram/M ² /24 hr
Dielectric Strength		(ASTM D149)	>35.4v/Micron
Shore D Hardness		(ASTM D2240)	85
Vertical Sag Resistance			>3 mm
Maximum Temperature (Dependent on service)	Wet		52°C
	Dry		80°C
			125°F
			175°F