

100% solids, ceramic reinforced, thin film coating to protect metal against chemicals, abrasion, and corrosion. ARC 855(E) industrial coating is designed to:

- Upgrade new and old equipment exposed to abrasion, corrosion or chemical attack
- Replace traditional coatings, special alloys, engineered plastics, ceramics, etc.
- Easily apply by roller or brush

Application Areas

- Pump Casings
- Impellers and blades
- Heat Exchangers
- Bins and Silos
- Hoppers
- Waterboxes
- Transport Screws
- Tanks and Vessels
- Valves

Packaging and Coverage

- **ARC 855(E) requires a minimum of two coats**

Nominal, based on a 750 µm (30 mil) thickness

- 0.75 liter kit covers 0.98 m² (10.60 ft²)
- 1.5 liter kit covers 2.00 m² (21.53 ft²)
- 5 liter kit covers 6.67 m² (71.76 ft²)
- 16 liter kit covers 21.33 m² (229.63 ft²)

Note: Components are pre-measured & pre-weighed.

Each kit includes mixing and application instructions. 0.75 liter, 1.5 liter & 5 liter kits include tools.

Colors: Black or gray



Features and Benefits

- **Abrasion resistant surface**
 - Extends equipment life
 - Reduces spare parts
 - Reduces downtime
- **High gloss, low drag surface**
 - Improves material flow
 - Enhances efficiency
- **High adhesive strength**
 - Prevents under-film corrosion
- **100% solids; no VOCs; no free isocyanates**
 - Enhances safe use
 - No shrinkage on cure
 - Resists permeation
- **Low viscosity, thin film, brush or roller applied coating**
 - Easy to apply
 - Saves repair time

Technical Data

Composition	Matrix	A two component, modified epoxy resin reacted with an aliphatic curing agent	
	Reinforcement	A proprietary blend of ceramic particles providing smooth, wear resistant surface	
Cured Density		1.8 g/cc	112 lb/ cu.ft.
Compressive Strength	(ASTM D 695)	913 kg/cm ² (89.6 MPa)	13,000 psi
Flexural Strength	(ASTM D 790)	577 kg/cm ² (56.5 MPa)	8,200 psi
Pull-Off Adhesion	(ASTM D 4541)	415 kg/cm ² (40.7 MPa)	5,900 psi
Tensile Strength	(ASTM D 638)	295 kg/cm ² (28.9 MPa)	4,200 psi
Linear Coefficient of Thermal Expansion	(ASTM C 531)	5.5 x 10 ⁻⁵ cm/cm/°C	3.1 x 10 ⁻⁵ in/in/°F
Composite Shore D Durometer Hardness	(ASTM D 2240)	88	
Vertical Sag Resistance, at 21°C (70°F) and 0.38 mm (.015")		No sag	
Maximum Temperature (Dependent on service)	Wet Service Dry Service	65°C 120°C	149°F 248°F
Shelf life (unopened containers)	3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		