

100% solids, thick film, ceramic reinforced abrasion control epoxy compound formulated to protect metal surfaces subjected to erosion, corrosion and chemical attack. ARC 858 industrial coating is designed to:

- Upgrade new and old equipment exposed to abrasion, corrosion or chemical attack
- Rebuild surfaces with erosion resistant protection outperforming weld overlays
- Fill grooves, pits, etc. in metal prior to overcoating with another ARC product
- Easily apply by trowel

Application Areas

- Pump casings
- Impellers and blades
- Back plates
- Wear plates
- Heat exchangers
- Bins and silos
- Hoppers
- Transport screws
- Pipe elbows
- Tanks and vessels
- Valves
- Dewatering screws

Packaging and Coverage

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

- 250 g kit covers 0.20 m² (2.21 ft²)
- 940 ml cartridge covers 1.25 m² (13.50 ft²)
- 0.75 liter kit covers 1.00 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. 250 g, 0.75 liter, 1.5 liter & 5 liter kits include tools.

Color: Gray



Features and Benefits

- **Extremely abrasion resistant**
 - Extends equipment life
 - Reduces spare parts
 - Reduces downtime
- **High build - single coat applications**
 - Quick applications
- **High adhesive strength**
 - Provides long-term protection
 - Eliminates under-film corrosion
- **100% solids; no VOCs; no free isocyanates**
 - Enhances safe use
 - No shrinkage on cure
 - Resists permeation

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, erosion resistant surface	
Cured Density		1.6 g/cc	100 lb/ cu.ft.
Compressive Strength	(ASTM D 695)	910 kg/cm ²	13,000 psi
Flexural Strength	(ASTM D 790)	620 kg/cm ²	8,800 psi
Flexural Modulus	(ASTM D 790)	6.9 x 10 ⁴ kg/cm ²	9.9 x 10 ⁵ psi
Pull-Off Adhesion	(ASTM D 4541)	478.5 kg/cm ² (47 MPa)	6,810 psi
Tensile Strength	(ASTM D 638)	211 kg/cm ²	3,000 psi
Lap Shear Adhesion	(ASTM D 1002)	150 kg/cm ²	2,100 psi
Composite Shore D Durometer Hardness	(ASTM D 2240)	88	
Taber Abrasion H-18/250 gram/1000 cycles	(ASTM D 4060)	71 mg weight loss	
Vertical Sag Resistance, at 21°C (70°F) and 0.6 mm (1/4")		No sag	
Maximum Temperature (Dependent on service)	Wet Service	70°C	158°F
	Dry Service	160°C	320°F
Shelf life (unopened containers)	3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		