

Pipe elbows

Valves

Tanks and vessels

Dewatering screws

## 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

Heat exchangers

Bins and silos

Easily apply by trowel

## **Application Areas**

- Pump casings
- Impellers and blades
- Back plates
- Hoppers
- Wear plates
- Transport screws

#### **Packaging and Coverage**

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

- 250 g kit covers 0.20 m<sup>2</sup> (2.21 ft<sup>2</sup>)
- 940 ml cartridge covers 1.25 m<sup>2</sup> (13.50 ft<sup>2</sup>)
- 0.75 liter kit covers 1.00 m<sup>2</sup> (10.60 ft<sup>2</sup>)
- 1.5 liter kit covers 2.00 m<sup>2</sup> (21.53 ft<sup>2</sup>)
- 5 liter kit covers 6.67 m<sup>2</sup> (71.76 ft<sup>2</sup>)

 16 liter kit covers 21.33 m<sup>2</sup> (229.63 ft<sup>2</sup>) 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

## **Technical Data**

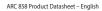
Technical Data				
Composition Matrix	A two component, mo	A two component, modified epoxy resin reacted with an aliphatic curing agent		
Reinforcement	A proprietary blend o	A proprietary blend of ceramic particles providing smooth, erosion resistant surface		
Cured Density		1.6 g/cc	100 lb/ cu.ft.	
Compressive Strength	(ASTM D 695)	910 kg/cm <sup>2</sup>	13,000 psi	
Flexural Strength	(ASTM D 790)	620 kg/cm <sup>2</sup>	8,800 psi	
Flexural Modulus	(ASTM D 790)	6.9 x 10 <sup>4</sup> kg/cm <sup>2</sup>	9.9 x 10⁵ psi	
Pull-Off Adhesion	(ASTM D 4541)	478.5 kg/cm² (47 MPa)	6,810 psi	
Tensile Strength	(ASTM D 638)	211 kg/cm <sup>2</sup>	3,000 psi	
Lap Shear Adhesion	(ASTM D 1002)	150 kg/cm <sup>2</sup>	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 Dry Service	70°C 160°C	158°F 320°F	
Shelf life (unopened containers)	3 years [stored betwe	3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



A.W. Chesterton Company 860 Salem Street, Groveland, MA 01834 USA Tel +1 978-469-6888 Toll Free 844-469-6888 arcindustrialcoatings.com ARCInfo@Chesterton.com

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Technical Data reflect results of laboratory tests and are intended to indicate general characteristics only. Since many actual application circumstances are beyond Chesterton's knowledge and/or control, the product user must determine the suitability of the products it intends to use for its particular purpose and assume all risks and liabilities in connection therewith. CHESTERTON DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



8/22



# **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