

Product Datasheet: ARC 855

100% solids, ceramic reinforced, thin film coating to protect metal against chemicals, abrasion, and corrosion. ARC 855 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
- Hoppers Waterboxes

Bins and Silos

- Transport Screws Tanks and Vessels
 - Valves

- **Packaging and Coverage**
- ARC 855 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		1.6 g/cc	100 lb/ cu.ft.
Compressive Strength	(ASTM D 695)	840 kg/cm² (82.7 MPa)	12,000 psi
Flexural Strength	(ASTM D 790)	560 kg/cm² (54.2 MPa)	8,000 psi
Pull-Off Adhesion	(ASTM D 4541)	352.7 kg/cm² (34.6 MPa)	5,020 psi
Tensile Strength	(ASTM D 638)	240 kg/cm² (23.4 MPa)	3,400 psi
Linear Coefficient of Thermal Expansion	(ASTM C 531)	4.6 x 10 ⁻⁵ cm/cm/°C	2.6 x 10⁻⁵ in/in/°F
Cathodic Disbondment	(ASTM G 8)	Passes 60 days	
Composite Shore D Durometer Hardness	(ASTM D 2240)	85	
Salt fog - scored panels	(ASTM B 117)	No rust > 10,000 hours	
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]		



A.W. Chesterton Company 860 Salem Street, Groveland, MA 01834 USA Tel +1 978-469-6888 Toll Free 844-469-6888 arcindustiralcoatings.com ARCInfo@Chesterton.com © 2022 A.W. Chesterton Company Registered trademark owned and licensed by A.W. Chesterton Company in USA and other countries, unless otherwise noted.

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 particula Irpose 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.