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

**Technical Data**

<table>
<thead>
<tr>
<th>Composition</th>
<th>Matrix</th>
<th>A two component, modified epoxy resin reacted with an aliphatic curing agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforcement</td>
<td>A proprietary blend of ceramic particles providing smooth, erosion resistant surface</td>
<td></td>
</tr>
<tr>
<td>Cured Density</td>
<td>1.6 g/cc</td>
<td>100 lb/ cu.ft.</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>(ASTM D 695)</td>
<td>910 kg/cm²</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>(ASTM D 790)</td>
<td>620 kg/cm²</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>(ASTM D 790)</td>
<td>6.9 x 10⁴ kg/cm²</td>
</tr>
<tr>
<td>Pull-Off Adhesion</td>
<td>(ASTM D 4541)</td>
<td>478.5 kg/cm² (47 MPa)</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>(ASTM D 638)</td>
<td>211 kg/cm²</td>
</tr>
<tr>
<td>Lap Shear Adhesion</td>
<td>(ASTM D 1002)</td>
<td>150 kg/cm²</td>
</tr>
<tr>
<td>Composite Shore D Durometer Hardness</td>
<td>(ASTM D 2240)</td>
<td>88</td>
</tr>
<tr>
<td>Taber Abrasion</td>
<td>(ASTM D 4060)</td>
<td>71 mg weight loss</td>
</tr>
<tr>
<td>H-18/250 gram/1000 cycles</td>
<td>No sag</td>
<td></td>
</tr>
<tr>
<td>Vertical Sag Resistance, at 21°C (70°F) and 0.6 mm (1/4&quot;)</td>
<td>No sag</td>
<td></td>
</tr>
<tr>
<td>Maximum Temperature (Dependent on service)</td>
<td>Wet Service, Dry Service</td>
<td>70°C, 160°C</td>
</tr>
<tr>
<td>Shelf life (unopened containers)</td>
<td>2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]</td>
<td></td>
</tr>
</tbody>
</table>

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 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.