100% solids, modified epoxy formulation, reinforced with a proprietary blend of ceramic beads and powders for extremely abrasive sliding wear environments. ARC BX1(E) industrial wear resistant coating is designed to:

- Protect areas exposed to sliding abrasion
- Resurface damaged metal in lieu of more traditional weld overlays
- Replace ceramic tiles and rubber linings which can more easily disbond
- Easily apply by trowel

### Application Areas

- Bins and silos
- Apex cones
- Slurry pumps
- Wear plates
- Blow lines
- Hydropulpers
- Chutes
- Cyclones
- Pipe elbows
- Exhausters
- Transport screws
- Pneumatic transport lines

### Packaging and Coverage

Nominal, based on a 6 mm (240 mil) thickness

- 1.5 liter kit covers 0.25 m² (2.69 ft²)
- 5 liter kit covers 0.85 m² (8.97 ft²)
- 20 kg kit covers 1.45 m³ (15.6 ft³)

Note: Components are pre-measured & pre-weighed.
Each kit includes mixing and application instructions plus tools.

Colors: Gray

### Features and Benefits

- Easy to carry package design
- Easy field or shop use
- High ceramic loading level
  - Extends life of equipment exposed to coarse particle wear
  - Lowers coefficient of thermal expansion
- Chemically resistant polymer matrix
  - Covers a broad range of chemical exposures
- High adhesive strength
  - Resists disbonding
- High build - single coat application
  - Allows for vertical build capability to most substrates
- 100% solids; no VOCs; no free isocyanates
  - Enhances safe use
  - No shrinkage on cure

### Technical Data

<table>
<thead>
<tr>
<th>Composition</th>
<th>Matrix</th>
<th>A modified epoxy resin reacted with an aliphatic curing agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforcement</td>
<td>A proprietary blend of ceramic particles selected for resistance to severe sliding wear</td>
<td></td>
</tr>
<tr>
<td>Cured Density</td>
<td>2.3 g/cc</td>
<td>144 lb/cu.ft.</td>
</tr>
<tr>
<td>Pull-Off Adhesion</td>
<td>(ASTM D 4541) 210 kg/cm² (20.7 MPa)</td>
<td>&gt;3000 psi</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>(ASTM C 579) 620 kg/cm² (61 MPa)</td>
<td>8,800 psi</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>(ASTM C 307) 218 kg/cm² (21 MPa)</td>
<td>3,100 psi</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>(ASTM C 580) 429 kg/cm² (42 MPa)</td>
<td>6,100 psi</td>
</tr>
<tr>
<td>Impact Resistance (direct)</td>
<td>(ASTM D 2794) 18.1 N·m</td>
<td>160 in-lb.</td>
</tr>
<tr>
<td>Shore D Durometer Hardness</td>
<td>(ASTM D 2240) 88</td>
<td></td>
</tr>
<tr>
<td>Vertical Sag Resistance, at 21°C (70°F) and 6 mm (1/4”)</td>
<td>No sag</td>
<td></td>
</tr>
<tr>
<td>Maximum Temperature (Dependent on service)</td>
<td>Wet Service 95°C</td>
<td>203°F</td>
</tr>
<tr>
<td></td>
<td>Dry Service 205°C</td>
<td>400°F</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>

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.