

100% solids, modified epoxy formulation, reinforced with a proprietary blend of ceramic beads and powders for extremely abrasive sliding wear environments. ARC BX1 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)
- 20 kg kit covers 1.37 m² (14.70 ft²)

Note: Components are pre-measured & pre-weighed.

Each kit includes mixing and application instructions plus tools.

Colors: Gray



Features and Benefits

- **Nested, 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

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|---|---|---|----------------|
| Composition | Matrix | A modified epoxy resin reacted with an aliphatic curing agent | |
| | Reinforcement | A proprietary blend of ceramic particles selected for resistance to severe sliding wear | |
| Cured Density | | 2.2 g/cc | 137 lb/ cu.ft. |
| Pull-Off Adhesion | (ASTM D 4541) | 238.9 kg/cm ² (23.5 MPa) | 3,300 psi |
| Compressive Strength | (ASTM C 579) | 620 kg/cm ² | 11,090 psi |
| Tensile Strength | (ASTM C 307) | 250 kg/cm ² (24 MPa) | 3,210 psi |
| Flexural Strength | (ASTM C 580) | 370 kg/cm ² (37.9 MPa) | 5,840 psi |
| Impact Resistance (reverse) | (ASTM D 2794) | 6.8 N-m | 100 in-lb. |
| Shore D Durometer Hardness | (ASTM D 2240) | 85 | |
| Vertical Sag Resistance, at 21°C (70°F) and 6 mm (1/4") | | No sag | |
| Maximum Temperature (Dependent on service) | Wet Service | 95°C | 203°F |
| | Dry Service | 205°C | 400°F |
| Shelf life (unopened containers) | 3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility] | | |