

Product Datasheet: ARC BX1(E)

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



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

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- Enhances safe use
- No shrinkage on cure

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 1.45m² (15.6 ft²)

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

Each kit includes mixing and application instructions plus tools.

Colors: Gray

| 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 | | 2.3 g/cc | 144 lb/ cu.ft. | |
| Pull-Off Adhesion | (ASTM D 4541) | 210 kg/cm² (20.7 MPa) | >3000 psi | |
| Compressive Strength | (ASTM C 579) | 620 kg/cm² (61 MPa) | 8,800 psi | |
| Tensile Strength | (ASTM C 307) | 218 kg/cm² (21 MPa) | 3,100 psi | |
| Flexural Strength | (ASTM C 580) | 429 kg/cm² (42 MPa) | 6,100 psi | |
| Impact Resistance (direct) | (ASTM D 2794) | 18.1 N-m | 160 in-lb. | |
| Shore D Durometer Hardness | (ASTM D 2240) | 88 | | |
| Vertical Sag Resistance, at 21°C (70°F) and 6 mm (1/4") | | No sag | | |
| Maximum Temperature (Dependent on service) | Wet Service Dry Service | 95°C 205°C | 203°F 400°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] | | |

