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

Packaging and Coverage

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

- 1.5 liter kit covers 0.25 m^2 (2.69 ft^2)
- 5 liter kit covers 0.85 m^2 (8.97 ft^2)
- 20 kg kit covers 1.45m^2 (15.6 ft^2)

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

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/cm^2 (20.7 MPa)	>3000 psi
Compressive Strength	(ASTM C 579)	743 kg/cm^2 (73 MPa)	10,540 psi
Tensile Strength	(ASTM C 307)	264 kg/cm^2 (25 MPa)	3,750 psi
Flexural Strength	(ASTM C 580)	475 kg/cm^2 (47 MPa)	6,760 psi
Slurry Abrasion Response (SAR number)	(ASTM G 75)	788	
Taber Wear CS-17/1000 cycles / 1 kg load	(ASTM D 4060)	12 mg loss (5 mm^3 loss)	
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 between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		

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