Product Datasheet: ARC BX1

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 mils) thickness

- 20 kg kit covers 1.5 m^2 (16.1 ft^2)

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

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.
Tensile Adhesion	(ASTM D 4541)	238.9 kg/cm^2 (23.5 MPa)	3,400 psi
Compressive Strength	(ASTM C 579)	620 kg/cm^2	8,800 psi
Tensile Strength	(ASTM C 307)	250 kg/cm^2 (20.7 MPa)	3,500 psi
Flexural Strength	(ASTM C 580)	370 kg/cm^2 (37.9 MPa)	5,200 psi
Impact Resistance (reverse)	(ASTM D 2794)	6.8 N-m	60 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 Dry Service	95°C 205°C	203°F 400°F
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		

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