

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

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	146 lb/ cu.ft.
Pull-Off Adhesion	(ASTM D 4541)	217.2 kg/cm ² (21.4 MPa)	3,000 psi
Compressive Strength	(ASTM C 579)	676 kg/cm ²	12,100 psi
Tensile Strength	(ASTM C 307)	280 kg/cm ² (26.9 MPa)	3,600 psi
Flexural Strength	(ASTM C 580)	450 kg/cm ² (46 MPa)	7,100 psi
Slurry Abrasion Response (SAR Number)	(ASTM G75)	627	
Impact Resistance (reverse)	(ASTM D 2794)	>10.8 N-m	>160 in-lb.
Shore D Durometer Hardness	(ASTM D 2240)	82	
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]		