

**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
- Blow lines
- Pipe elbows
- Apex cones
- Hydropulpers
- Exhausters
- Slurry pumps
- Chutes
- Transport screws
- Wear plates
- Cyclones
- Pneumatic transport lines

## Packaging and Coverage

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

- 1.5 liter kit covers 0.25 m<sup>2</sup> (2.69 ft<sup>2</sup>)
- 20 kg kit covers 1.37 m<sup>2</sup> (14.70 ft<sup>2</sup>)

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.
Pull-Off Adhesion	(ASTM D 4541)	238.9 kg/cm <sup>2</sup> (23.5 MPa)	3,400 psi
Compressive Strength	(ASTM C 579)	620 kg/cm <sup>2</sup>	8,800 psi
Tensile Strength	(ASTM C 307)	250 kg/cm <sup>2</sup> (24 MPa)	3,500 psi
Flexural Strength	(ASTM C 580)	370 kg/cm <sup>2</sup> (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	95°C	203°F
	Dry Service	205°C	400°F
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		