

**100% solids, modified epoxy formulation, reinforced with a proprietary blend of ceramic beads and powders for fine particle, abrasive sliding wear environments. ARC BX2(E) industrial wear resistant coating is designed to:**

- Protect areas exposed to moderate 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

- Slurry pumps
- Bins and hoppers
- Fan blades and housings
- Hydropulpers
- Slurry pipes
- Hydro-cyclones
- Transport screws
- Wear plates
- Turbo separators
- Pipe elbows and spools
- Chutes and hoppers

## Packaging and Coverage

Nominal, based on a 3 mm (120 mil) thickness

- 1.5 liter kit covers 0.50 m<sup>2</sup> (5.38 ft<sup>2</sup>)
- 5 liter kit covers 1.67 m<sup>2</sup> (17.94 ft<sup>2</sup>)
- 20 kg kit covers 3.17 m<sup>2</sup> (34.10 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

- **High ceramic loading level**
  - Extends life of equipment exposed to fine particle wear
  - Lowers coefficient of thermal expansion
  - Extends equipment life
- **Chemically resistant polymer matrix**
  - Covers a broad range of chemical exposures
  - Resists cracking & delamination
- **High adhesive strength**
  - Resists disbonding
- **Single coat application**
  - Saves time and versatile
- **Low mixed viscosity**
  - Eases mixing, application and finishing
- **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 amine curing agent	
	Reinforcement ( <i>Proprietary</i> )	Blend of medium to fine sintered bauxite beads & fine SiC powders treated with polymeric coupling agent	
Cured Density		2.1 g/cc	131 lb/ cu.ft.
Pull-Off Adhesion	(ASTM D 4541)	>211 kg/cm <sup>2</sup> (>21 MPa)	>3000 psi
Compressive Strength	(ASTM C 579)	1000 kg/cm <sup>2</sup> (98 MPa)	14,230 psi
Flexural Strength	(ASTM C 580)	553 kg/cm <sup>2</sup> (54 MPa)	7,865 psi
Tensile Strength	(ASTM C 307)	272 kg/cm <sup>2</sup> (27 MPa)	3,870 psi
Impact Resistance (reverse)	(ASTM D 2794)	18 N-m	160 in.-lb.
Linear Coefficient of Thermal Expansion	(ASTM C 531)	3.5 x 10 <sup>-5</sup> cm/cm/°C	2.2 x 10 <sup>-5</sup> in/in/°F
Shore D Durometer Hardness	(ASTM D 2240)	90	
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]		