

100% solids, modified epoxy formulation, reinforced with a proprietary blend of ceramic beads and powders for fine particle, abrasive sliding wear environments. ARC BX2 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
- Hydropulpers
- Transport screws
- Pipe elbows and spools
- Bins and hoppers
- Slurry pipes
- Wear plates
- Chutes and hoppers
- Fan blades and housings
- Hydro-cyclones
- Turbo separators

Packaging and Coverage

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

- 1.5 liter kit covers 0.50 m² (5.38 ft²)
- 5 liter kit covers 1.67 m² (17.94 ft²)
- 20 kg kit covers 2.82 m² (30.32 ft²)

Note: Components are pre-measured & pre-weighed.

Each kit includes mixing and application instructions plus tools.

Colors: Gray or Red



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		2.2 g/cc	137 lb/ cu.ft.
Pull-Off Adhesion	(ASTM D 4541)	238.2 kg/cm ² (23.4 MPa)	3,390 psi
Compressive Strength	(ASTM D 695)	950 kg/cm ² (93 MPa)	13,500 psi
Flexural Strength	(ASTM D 790)	690 kg/cm ² (68 MPa)	9,800 psi
Tensile Strength	(ASTM D 638)	340 kg/cm ² (33 MPa)	4,800 psi
Impact Resistance (reverse)	(ASTM D 2794)	6.0 N-m	53 in-lb.
Linear Coefficient of Thermal Expansion	(ASTM C 531)	3.9 x 10 ⁻⁵ cm/cm/°C	2.2 x 10 ⁻⁵ 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]		