

**100% solids, impact resistant, ceramic reinforced, epoxy/urethane hybrid for severe abrasive wear and impact resistance. ARC I BX1 industrial coating is designed to:**

- Protect surfaces exposed to impact <50 ft lb (<68 Nm) and sliding abrasion
- Provide a longer lasting alternative to rubber lining and ceramic tiles
- Resist direct as well as reverse impact forces
- Easily apply by trowel

## Application Areas

- Hoppers/chutes
- Discharge plates
- Slurry elbows
- Slurry pump cutwaters
- Rubber insert repair
- Pulverizer exhausters
- FD/ID fan housings
- Vibrating screen decks
- Pump line repair

## Packaging and Coverage

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

- 20 kg kit covers 1.4 m<sup>2</sup> (15 ft<sup>2</sup>)

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

Each kit includes mixing and application instructions plus tools.

Color: Gray



## Features and Benefits

- **Urethane modified formulation**
  - Resists repeated direct and reverse impact forces
  - Versatile and reliable
- **no free isocyanates; 100% solids; no VOCs**
  - Enhances safe use
- **Nested, easy to carry package design**
  - Easy field or shop use
- **High ceramic loading level**
  - Offers extended service in severe sliding abrasion exposures
  - Resists moderate to severe impact

## Technical Data

Composition	Matrix	A modified epoxy/urethane hybrid resin reacted with a cycloaliphatic amine curing agent	
	Reinforcement ( <i>Proprietary</i> )	Blend of sintered bauxite beads & SiC powders treated with polymeric coupling agent	
Cured Density		2.4 g/cc	149.5 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	479 kg/cm <sup>2</sup> (47 MPa)	6,830 psi
Flexural Strength	(ASTM C 580)	305 kg/cm <sup>2</sup> (30 MPa)	4,420 psi
Flexural Modulus	(ASTM C 580)	50,600 kg/cm <sup>2</sup> (4964 MPa)	720,000 psi
Tensile Adhesion	(ASTM D 4541)	222.7 kg/cm <sup>2</sup> (21.9 MPa)	3,170 psi
Tensile Strength	(ASTM C 307)	193 kg/cm <sup>2</sup> (19 MPa)	2,750 psi
Impact Resistance (Reverse)	(ASTM D 2794)	>20.3 N-m	>180 in-lbs.
Tensile Elongation	(ASTM D 638)	1.7%	
Shore D Durometer Hardness	(ASTM D 2240)	83	
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]		