

100% solids, impact resistant, ceramic reinforced, epoxy/urethane hybrid for severe abrasive wear and impact resistance. ARC I BX1(E) 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 mil) thickness

- 20 kg kit covers 1.45 m² (15.6 ft²)

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
- **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		2.3 g/cc	143 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	591 kg/cm ² (58 MPa)	8,430 psi
Flexural Strength	(ASTM C 580)	276 kg/cm ² (27 MPa)	4,005 psi
Flexural Modulus	(ASTM C 580)	50,319 kg/cm ² (4,936 MPa)	716,000 psi
Pull-Off Adhesion	(ASTM D 4541)	211 kg/cm ² (21 MPa)	3,000 psi
Tensile Strength	(ASTM C 307)	189 kg/cm ² (19 MPa)	2,700 psi
Impact Resistance (Direct)	(ASTM D 2794)	>18 N-m	>160 in-lbs.
Tensile Elongation	(ASTM D 638)	2.4%	
Shore D Durometer Hardness	(ASTM D 2240)	87	
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]		