

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 mil) thickness

- 20 kg kit covers 1.39 m² (14.93 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
- **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>)	Proprietary blend of high purity Al ₂ O ₃ & SiC powders treated with polymeric coupling agent	
Cured Density		2.4 g/cc	149.5 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	679 kg/cm ² (66.6 MPa)	9,660 psi
Flexural Strength	(ASTM C 580)	431 kg/cm ² (42MPa)	6,130 psi
Flexural Modulus	(ASTM C 580)	62,055 kg/cm ² (6085 MPa)	882,640 psi
Pull-Off Adhesion	(ASTM D 4541)	225 kg/cm ² (22 MPa)	3,200 psi
Slurry Abrasion Response (SAR Number)	(ASTM G75)	621	
Tensile Strength	(ASTM C 307)	232 kg/cm ² (22.7 MPa)	3,300 psi
Impact Resistance (Reverse)	(ASTM D 2794)	>20.3 N-m	>160 in-lbs.
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]		