

**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 m<sup>2</sup> (15.6 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
- **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 <sup>2</sup> (58 MPa)   | 8,430 psi      |
| Flexural Strength                                       | (ASTM C 580)  | 276 kg/cm <sup>2</sup> (27 MPa)   | 4,005 psi      |
| Flexural Modulus  | (ASTM C 580)  | 50,319 kg/cm <sup>2</sup> (4,936 MPa)   | 716,000 psi    |
| Pull-Off Adhesion                                       | (ASTM D 4541)   | 211 kg/cm <sup>2</sup> (21 MPa)   | 3,000 psi      |
| Tensile Strength  | (ASTM C 307)  | 189 kg/cm <sup>2</sup> (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)                        | 3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility] |   |                |