Product Datasheet: ARC I BX1



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 A modified epoxy/urethane hybrid resin reacted with a cycloaliphatic amine curing agent Composition Matrix Blend of sintered bauxite beads & SiC powders treated with polymeric coupling agent Reinforcement (Proprietary) Cured Density 2.4 g/cc 149.5 lb/ cu.ft. **Compressive Strength** (ASTM C 579) 479 kg/cm² (47 MPa) 6,830 psi Flexural Strength (ASTM C 580) 305 kg/cm² (30 MPa) 4,420 psi Flexural Modulus (ASTM C 580) 50,600 kg/cm² (4964 MPa) 720,000 psi **Pull-Off Adhesion** 222.7 kg/cm² (21.9 MPa) (ASTM D 4541) 3,170 psi **Tensile Strength** (ASTM C 307) 193 kg/cm² (19 MPa) 2,750 psi Impact Resistance (Reverse) (ASTM D 2794) >20.3 N-m >180 in-lbs 1.7% **Tensile Elongation** (ASTM D 638) Shore D Durometer Hardness (ASTM D 2240) 83 Vertical Sag Resistance, No sag at 21°C (70°F) and 6 mm (1/4") Wet Service 95°C 203°F Maximum Temperature 205°C (Dependent on service) Dry Service 400°F Shelf life (unopened containers) 2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]



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