Product Datasheet: ARC I BX1 RC

A rapid curing high impact resistant, 100% solids, epoxy/urethane hybrid with ceramic reinforcements for severe wear regions & impact. ARC I BX1 RC industrial coating is designed to:

- Cure quickly allowing a faster turn-around with repairs
- Coat & protect surfaces exposed to moderate to severe impact & sliding abrasion
- Rapidly repair/replace cracked ceramic tile or rubber lining where impact forces combined with sliding wear tear seams and edges
- Resist direct and reverse impact forces associated with materials handling system
- Easily apply by trowel

Application Areas

- Rubber pump liners
- Discharge plates
- Pipe elbows
- Slurry pump cutwaters
- Tile lined chutes
- Rubber lined agitators
- FD/ID fan housings
- Vibrating screen decks
- Pulverized fuel lines

Packaging and Coverage

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

- 1,5 liter kit covers 0.25 m^2 (2.69 ft^2)
- 2,5 liter kit covers 0.42 m^2 (4.49 ft^2)

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

Each kit includes mixing and application instructions plus tools.

Color: Brown

Features and Benefits

- **Urethane modified formulation**
  - Resists repeated direct and reverse impact for reliable performance
- **Modified rapid cure curing agent**
  - Reduces cure time to <3 hours getting equipment back online faster
- **100% solids; no VOCs; no free isocyanates**
  - Enhances safe use
- **Surface tolerant formulation**
  - Eases use in field and shop with high degree of adhesion
- **High ceramic loading level for extended service in severe sliding abrasion**
  - Offers extended service in severe sliding abrasion exposures

Technical Data

Composition — Matrix	A modified epoxy/urethane resin hybrid reacted with a fast curing amine curing agent		
Composition — Reinforcement *(Proprietary)*	Blend of sintered bauxite beads & SiC powders treated with polymeric coupling agent		
Cured Density		2.36 g/cc	147.3 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	675 kg/cm^2 (66.2 MPa)	9,600 psi
Flexural Strength	(ASTM C 580)	422 kg/cm^2 (41.4 MPa)	6,000 psi
Flexural Modulus	(ASTM C 580)	50,600 kg/cm^2 (4962 MPa)	720,000 psi
Pull-Off Adhesion	(ASTM D 4541)	238.2 kg/cm^2 (23.4 MPa)	3,390 psi
Tensile Strength	(ASTM C 307)	200 kg/cm^2 (19.7 MPa)	2,850 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 (240 mil)		No sag	
Maximum Temperature (Dependent on service)	Wet Service Dry Service	95°C 205°C	203°F 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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