

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

- Cure quickly allowing a faster turn-around with repairs
- Coat and protect surfaces exposed to moderate to severe impact and 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 m² (2.69 ft²)
- 2,5 liter kit covers 0.42 m² (4.49 ft²)

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	
	Reinforcement (<i>Proprietary</i>)	Proprietary blend of high purity Al ₂ O ₃ and SiC, pretreated with polymeric coupling agent	
Cured Density		2.37 g/cc	1147.95 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 (42.3 MPa)	6,130 psi
Pull-Off Adhesion	(ASTM D 4541)	225 kg/cm ² (22.1 MPa)	3,200 psi
Tensile Strength	(ASTM C 307)	232 kg/cm ² (22.8 MPa)	3,300 psi
Impact Resistance (Reverse)	(ASTM D 2794)	>18.1 N-m	>160 in-lbs.
Slurry Abrasion Response (SAR Number)	(ASTM G 75)	621	
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	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]		