

## 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
- Rubber insert repairPulverizer exhausters

Slurry pump cutwaters

- FD/ID fan housings
- Vibrating screen decks
  Pump line repair



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

20 kg kit covers 1.39 m<sup>2</sup> (14.93 ft<sup>2</sup>)
 Note: Components are pre-measured & pre-weighed.
 Each kit includes mixing and application instructions plus tools.

Color: Gray

**Technical Data** 





## **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

Composition Matrix	A modified epoxy/ur	A modified epoxy/urethane hybrid resin reacted with a cycloaliphatic amine curing agent		
Reinforcement (Proprietary)	Proprietary blend of high purity Al2O3 & 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 <sup>2</sup> (66.6 MPa)	9,660 psi	
Flexural Strength	(ASTM C 580)	431 kg/cm <sup>2</sup> (42MPa)	6,130 psi	
Flexural Modulus	(ASTM C 580)	62,055 kg/cm <sup>2</sup> (6085 MPa)	882,640 psi	
Pull-Off Adhesion	(ASTM D 4541)	225 kg/cm <sup>2</sup> (22 MPa)	3,200 psi	
Slurry Abrasion Response (SAR Number)	(ASTM G75)	621		
Tensile Strength	(ASTM C 307)	232 kg/cm <sup>2</sup> (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 Dry Service	95°C 205°C	203°F 400°F	
Shelf life (unopened containers)	2 years [stored betwe	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



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