

# **Product Datasheet: ARCIBX1**

## 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



#### **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

### **Packaging and Coverage**

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

- 20 kg kit covers 1.5 m<sup>2</sup> (15 ft<sup>2</sup>)
- 12 kg kit covers 0.9 m<sup>2</sup> (9 ft<sup>2</sup>)

Note: Components are pre-measured & pre-weighed. Each kit includes mixing and application instructions plus tools.

Color: Gray



Technical Data			
Composition Matrix	A modified epoxy/urethane hybrid resin reacted with a cycloaliphatic amine curing agent		
Reinforcement (Proprietary)	Proprietary blend of high purity Al2O3 and SiC, pretreated 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/cm² (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 between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



A.W. Chesterton Company REGISTRON COMPANY
REGISTRON AND A CONTROL OF THE CO

© 2025 A.W. Chesterton Company ® Registered trademark owned by A.W. Chesterton Company in USA and other countries, unless otherwise noted.

Technical Data reflect results of laboratory tests and are intended to indicate general characteristics only. Since many actual application circumstances are beyond Chesterton's knowledge and/or control, the product user must determine the suitability of the products it intends to use for its particular purpose and assume all risks and liabilities in connection therewith. CHESTERTON DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1/25