

## Product Datasheet: ARC BX5

## Rapid curing, 100% solids, ceramic reinforced, multi-component system, formulated for moderate sliding-wear and abrasion caused by fine particles. ARC BX5 industrial coating is designed to:

- Cure under adverse conditions with maximum adhesion
- Quickly patch and repair worn equipment and structures
- Easily apply by trowel

## **Application Areas**

- Pneumatic conveyors
- Chipper & chip bins
- Hydro pulpers
- Turbo separators
- Ni-hard slurry pumpsFly ash separators
- Transport fans
- Screw conveyors
- Cyclones & hoppersWear plates
- Pipe elbows
- Pulverizers
- Puiverizers

Packaging and Coverage

Nominal, based on a 3 mm (120 mil) thickness

0.75 liter kit covers 0.25 m<sup>2</sup> (2.69 ft<sup>2</sup>)

2.5 liter kit covers 0.83 m<sup>2</sup> (8.97 ft<sup>2</sup>)
Note: Components are pre-measured and pre-weighed.
Each kit includes mixing and application instructions plus tools.

Color: Gray or Red

Technical Data





## **Features and Benefits**

- Rapid cure chemistry
  - Quick return to service
- High volumetric loading level of ceramics
  - Resists abrasive wear longer
- Surface tolerant formulation
  - Bonds to moist and suboptimally prepared substrates
- 100% solids; no VOCs; no free isocyanates
  - Enhances safe use
- Mechanically tough reinforced composite
  - Resist mild to moderate impact applications

Technical Data			
Composition Matrix	A modified epoxy resin reacted with an aliphatic amine curing agent		
Reinforcement (Proprietary)	Blend of sintered bauxite beads and SiC powders pretreated with polymeric coupling agent		
Cured Density		2.2 g/cc	137 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	917 kg/cm² (90 MPa)	13,050 psi
Flexural Strength	(ASTM C 580)	444 kg/cm² (44 MPa)	6,320 psi
Pull-Off Adhesion	(ASTM D 4541)	224.8 kg/cm <sup>2</sup> (22.1 MPa)	3,200 psi
Tensile Strength	(ASTM C 307)	192 kg/cm² (18.7 MPa)	2,726 psi
Impact Resistance (Reverse)	(ASTM D 2794)	6.6 N-m	58 in-lbs.
Shore D Durometer Hardness	(ASTM D 2240)	89	
Vertical Sag Resistance, at 21°C (70°F) and 6 mm (240 mil)		No Sag	
Maximum Temperature (Dependent on service)	Wet Service Dry Service	60°C 120°C	140°F 248°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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