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 and chip bins
- Hydro pulpers
- Turbo separators
- Ni-hard slurry pumps
- Fly ash separators
- Transport fans
- Screw conveyors
- Cyclones and hoppers
- Wear plates
- Pipe elbows
- Pulverizers

Packaging and Coverage

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

- 0.75 liter kit covers 0.25 m^2 (2.69 ft^2)
- 2.5 liter kit covers 0.83 m^2 (8.97 ft^2)

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

Each kit includes mixing and application instructions plus tools.

Color: Gray or Red

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 sub-optimally 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)*	Proprietary blend of high purity Al_2O_3 and SiC, pretreated with polymeric coupling agent		
Cured Density		2.2 g/cc	137 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	971 kg/cm^2 (95.2 MPa)	13,810 psi
Pull-Off Adhesion	(ASTM D 4541)	210 kg/cm^2 (20.6 MPa)	2,992 psi
Tensile Strength	(ASTM C 307)	275.6 kg/cm^2 (27 MPa)	3,920 psi
Slurry Abrasion Response (SAR Number)	(ASTM G75)	457	
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)	3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		

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