

## Product Datasheet: ARC BX5 (MX5)

Rapid curing, 100% solids, ceramic reinforced, multi-component system, formulated for moderate sliding-wear and abrasion caused by fine particles. ARC BX5 (MX5) 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

Packaging and Coverage

- Ni-hard slurry pumps
- Fly ash separators
- Transport fans
- Screw conveyors
- Cyclones & hoppers
- Wear plates
- Pipe elbows
- Pulverizers



## **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

| Nominal, based on a 3 mm (120 mil) thickness  |                  |
|---|------------------|
| <ul> <li>0.75 liter kit covers 0.25 m² (2.69 ft²)</li> </ul>  |                  |
| <ul> <li>2.5 liter kit covers 0.83 m<sup>2</sup> (8.97 ft<sup>2</sup>)</li> <li>Note: Components are pre-measured &amp; pre-weighed.</li> </ul> | <b>→ CHITPIO</b> |
| Each kit includes mixing and application instructions plus tools.   |                  |
| Color: Gray or Red  | ARE NAME         |

| Technical Data  |   |  |                |  |
|---|---|--|----------------|--|
| Composition Matrix  | A modified epoxy resin reacted with an aliphatic amine curing agent           |  |                |  |
| Reinforcement (Proprietary)                                   | Blend of sintered bau   | Blend of sintered bauxite beads & 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,<br>at 21°C (70°F) and 6 mm (240 mil) |   | No Sag   |                |  |
| Maximum Temperature<br>(Dependent on service)                 | Wet Service<br>Dry Service  | 60°C<br>120°C  | 140°F<br>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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