Product Datasheet: ARC BX5(E)

Rapid curing, 100% solids, ceramic reinforced, multi-component system, formulated for moderate sliding-wear and abrasion caused by fine particles. ARC BX5(E) 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 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 sub-optimally prepared substrates
- **100% solids; no VOCs; no free isocyanates**
  - Enhances safe use
- **Mechanically tough reinforced composite**
  - Resist mild to moderate impact applications

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 & pre-weighed.

Each kit includes mixing and application instructions plus tools.

Color: Gray

Technical Data

Composition — Matrix	A modified epoxy resin reacted with an aliphatic amine curing agent		
Composition — Reinforcement (Proprietary)	A proprietary blend of ceramic particles selected for resistance to severe sliding wear		
Cured Density		2.3 g/cc	139 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	1,003 kg/cm^2 (98 MPa)	14,270 psi
Flexural Strength	(ASTM C 580)	522 kg/cm^2 (51 MPa)	7,437 psi
Pull-Off Adhesion	(ASTM D 4541)	204 kg/cm^2 (20 MPa)	2,900 psi
Tensile Strength	(ASTM C 307)	309 kg/cm^2 (30 MPa)	4,395 psi
Impact Resistance (direct)	(ASTM D 2794)	18 N-m	160 in-lbs.
Slurry Abrasion Response (SAR number)	(ASTM G75)	911	
Shore D Durometer Hardness	(ASTM D 2240)	90	
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]		

CHESTERTON
Global Solutions, Local Service.

Chesterton International GmbH
Am Lenzenfleck 23, DE-85737 Ismaning, Germany
Tel +49-5223-96276-0
www.aw-chesterton.eu eu-pds@chesterton.com

© 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.**