

100% solids, ceramic reinforced, multi-component hybrid system, formulated for extreme sliding-wear, abrasion and impact caused by medium to coarse particle flow. ARC MX1 industrial coating is designed to:

- Protect surfaces against dry coarse particle erosion, wet slurry abrasion and impact
- Provide a longer lasting alternative to rubber linings and ceramic wear tiles
- Restore worn equipment to near original condition
- Replace CD4, ni-hard or hardox as wear resistant material
- Easily apply by trowel

Application Areas

- Pulverizers
- Dredge pumps
- Hoppers & silos
- Conveyor screws
- Pumps & pipe elbows
- Fans/blowers/cyclones
- Slurry pumps
- Ceramic tile deflector hoods
- Slurry pipelines
- Fan housings
- Ceramic tile lined chutes
- Rubber lined deflector hoods

Packaging and Coverage

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

- 6 kg kit covers 0.37 m² (3.97 ft²)
Contains:
 - 1 x MXP (primer) part A & B
 - 1 x MX1 (top coat) part A & B
 - 1 MX (ceramic reinforcement) part C
- 20 kg kit covers 1.23 m² (13.23 ft²)
Contains:
 - 1 x MXP (primer) part A & B
 - 1 x MX1 (top coat) part A & B
 - 1 MX (ceramic reinforcement) part C

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

Color: Blue



Features and Benefits

- **Tough, ceramic reinforced coating resists broad range of slurries**
 - Extends life of equipment exposed to coarse particle wear
- **Advanced hybrid polymer matrix**
 - Withstands broad pH range
 - Resists repeated high impact force
- **100% solids; no VOCs; no free isocyanates**
 - Enhances safe use
 - Serves demanding applications
- **High tack primer ensures surface bonding**
 - Allows for vertical build capability to most substrates

Technical Data

Composition	Matrix	A modified hybrid epoxy resin reacted with an aliphatic amine curing agent	
	Reinforcement	Proprietary blend of high purity Al ₂ O ₃ and SiC, pretreated with polymeric coupling agent	
Cured Density		2.6 g/cc	163 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	752 kg/cm ² (73.7 MPa)	10,700 psi
Flexural Strength	(ASTM C 580)	352 kg/cm ² (34.4 MPa)	5,000 psi
Pull off Adhesion	(ASTM D 4541)	224.8 kg/cm ² (22.1 MPa)	4,200 psi
Tensile Strength	(ASTM C 307)	265 kg/cm ² (25.9 MPa)	3,770 psi
Impact Resistance (Direct)	(ASTM D 2794)	67.7 N-m	> 50 ft-lbs.
Shore D Durometer Hardness	(ASTM D 2240)	89	
Vertical Sag Resistance, at 21°C (70°F) and 6 mm (1/4")		No Sag	
Maximum Temperature (Dependent on service)	Wet Service	95°C	203°F
	Dry Service	205°C	400°F
Slurry Abrasion Response (SAR)	(ASTM G 75)	1,780	
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		