Product Datasheet: ARC 10

A machinable polymer alloy blend used to resurface scored and pitted regions which may be machined at a later stage to tight tolerances. ARC 10 industrial coating is designed to:

- Resurface worn metal parts which require machining to tolerances afterwards
- Resurface corroded and pitted metal surfaces
- Easily apply by trowel



Application Areas

- Flange faces
- Scored hydraulic rams
- Worn keyways
- Worn valve bodies
- Bearing housings
- Corroded stuffing boxes
- Shafts
- Pitted metal

Packaging and Coverage

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

- 250 g kit covers 0.04 m^2 (0.45 ft^2)
- 1.5 liter kit covers 0.50 m^2 (5.38 ft^2)

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

Each kit includes mixing and application instructions plus tools.

Color: Gray



Features and Benefits

- **Resistant to wide spectrum of chemicals including Alkalis, Acids & Solvents**
  - Covers a broad range of chemical exposures. Get it right the first time
- **100% solids; no VOCs; no free isocyanates**
  - Enhances safe use
- **High build viscosity**
  - Suitable for rebuilding pitted and scored surfaces to a thickness of >6 mm (.236") in a single coat
- **Polymer alloy reinforced**
  - Ease of machining

Technical Data			
Composition — Matrix	A modified epoxy resin reacted with an aliphatic amine curing agent		
Composition — Reinforcement	Proprietary blend of metallic alloy particles		
Cured Density		2.0 g/cc	125 lb/ cu.ft.
Pull-Off Adhesion	(ASTM D 4541)	256.6 kg/cm^2 (25.2 MPa)	3,650 psi
Compressive Strength	(ASTM D 695)	930 kg/cm^2	13,000 psi
Flexural Strength	(ASTM D 790)	401 kg/cm^2	5,708 psi
Flexural Modulus	(ASTM D 790)	3.6 x 10^4 kg/cm^2	5.1 x 10^5 psi
Tensile Strength	(ASTM C 638)	207 kg/cm^2	2,946 psi
Taber Wear Weight Loss	(ASTM D 4060)	(H-18/250 g/1000 cycles)	275 mg
Composite Shore D Durometer Hardness	(ASTM D 2240)	86	
Vertical Sag Resistance at 21°C (70°F) and 6 mm (1/4")		No sag	
Maximum Temperature (Dependent on service)	Wet Service Dry Service	66°C 93°C	150°F 200°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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