

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 m² (0.45 ft²)
- 1.5 liter kit covers 0.50 m² (5.38 ft²)

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

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 res	A modified epoxy resin reacted with an aliphatic amine curing agent		
Reinforcement	Proprietary blend of r	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)	710 kg/cm ²	10,000 psi	
Flexural Modulus	(ASTM D 790)	3.6 x 10 ⁴ kg/cm ²	5.1 x 10⁵ psi	
Tensile Strength	(ASTM C 638)	280 kg/cm ²	4,000 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	93°C	150°F 200°F	
Shelf life (unopened containers)	3 years [stored betwe	3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



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