

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 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	
	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)	710 kg/cm ²	10,000 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)	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	66°C	150°F
	Dry Service	93°C	200°F
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		