## 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
- Packaging and Coverage

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

250 g kit covers 0.04 m<sup>2</sup> (0.45 ft<sup>2</sup>)

1.5 liter kit covers 0.50 m<sup>2</sup> (5.38 ft<sup>2</sup>)
Note: Components are pre-measured & pre-weighed.
Each kit includes mixing and application instructions plus tools.

Color: Gray



Shafts

Pitted metal



## **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 <sup>2</sup> (25.2 MPa)	3,650 psi	
Compressive Strength	(ASTM D 695)	930 kg/cm <sup>2</sup>	13,000 psi	
Flexural Strength	(ASTM D 790)	710 kg/cm <sup>2</sup>	10,000 psi	
Flexural Modulus	(ASTM D 790)	3.6 x 10 <sup>4</sup> kg/cm <sup>2</sup>	5.1 x 10⁵ psi	
Tensile Strength	(ASTM C 638)	280 kg/cm <sup>2</sup>	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	66°C 93°C	150°F 200°F	
Shelf life (unopened containers)	2 years [stored betwe	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		



A.W. Chesterton Company 860 Salem Street, Groveland, MA 01834 USA Tel +1 978-469-6888 Toll Free 844-469-6888 www.arc-epc.com ARCInfo@Chesterton.com © 2015 A.W. Chesterton Company @ Registered trademark owned and licensed 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 WARRANTES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.