

Premier Protal ARO

Abrasion resistant pipeline coating

Composition

Premier Protal ARO is a liquid epoxy coating.

Uses

Premier Protal ARO is specially formulated for protection of FBE mainline coatings for directional drilling, bores, river crossings and other rough terrain applications. Premier Protal ARO can be used to provide additional protection to the factory coating on bends and fittings in areas of severe handling or rough terrain.

Premier Protal ARO is not for use directly on steel.

Characteristics

Premier Protal ARO is:

- abrasion resistant,
- quick drying,
- VOC free,
- suitable for service up to 65°C,
- high build (up to 1500 µm), and
- adherent to both FBE and Protal 7200.

Surface Preparation

see *Instructions for Use* for additional detail

Prepare FBE coating with a light sweep blast to remove gloss and roughen surface. After sweep blast, wipe entire surface with MEK or approved solvent to remove all dust and other surface contamination.

Brush Application

See *Instructions for Use* for additional detail.

Add the hardener to base and mix at a slow speed until a constant colour is achieved – ensure all sides of the container are scraped. Pour mixed material onto surface and brush, trowel or roll to required thickness. A wet-film thickness gauge shall be used to measure thickness. If surface temperature falls below 10°C, surface should be pre-heated to achieve faster cure. Preheat may be achieved with a propane torch or induction coil. Resin and hardener components shall be kept warm, at a minimum of 15°C to ensure easy mixing.

Spray Application

See *Instructions for Use* for additional detail.

The equipment should be a plural component airless spray unit with a proportioning pump capable of a volume mixing ratio of 3:1. Standard ancillary equipment should include minimum 38 litre hoppers, 2 static mixers, 7.6 m (max) x 6 mm whip hose, and mastic gun with a 0.5-0.9 mm tip.

Please consult Premier Coatings for recommended equipment.

Part A should be heated to 19-54°C

Part B should be heated to 38-43°C

Hose bundle shall be set at 49-54°C

A wet-on-wet spray technique should be used to achieve a minimum thickness of 762 µm. The coating thickness should be measured using a wet-film thickness gauge.

Availability

Premier Protal ARO is available in pre-measured kits: 1 L, 75 L, 800 L

Additional sizes may be available on request

Cleaning

Clean equipment with MEK or equivalent solvent cleaner.

Storage conditions

Store Premier Protal ARO in original containers, at 4°C to 36°C. On job sites where temperatures are below 15°C, product should be kept warm to mix properly.

Waste material

Please avoid or minimise waste wherever possible. Please do not discard waste material, including packaging, in the surrounding environment. Follow all relevant legislation for disposal.

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Typical Properties

Colour	
<i>Part A (Base)</i>	Red
<i>Part B (Hardener)</i>	Black
<i>Mixed</i>	Dark Red
Solids content	100%
Mixing ratio (volume)	3:1
Specific gravity	
<i>Part A (Base)</i>	1.76
<i>Part B (Hardener)</i>	1.62
<i>Mixed</i>	1.72
Viscosity	
<i>Part A (Base)</i>	41,000 cPs
<i>Part B (Hardener)</i>	34,500 cPs
<i>Mixed</i>	40,000 cPs
Cure Times	
<i>Gel time at 25°C</i>	30 minutes
<i>Handling time at 25°C</i>	4 hours
Theoretical coverage at 762 µm	1.3 m ² / l
Recommended thickness	762-1254 µm
Hardness (Shore D)	85
Adhesion to FBE (ASTM D 4541-02)	17 MPa
Gouge Resistance (Partech Method – 50 kg)	264 µm depth
<i>Holiday detection at 67.5 V (DC)</i>	pass
Abrasion Resistance (ASTM D 4060-01)	
<i>1000 cycles CS-17</i>	99 mg
Holiday detection	5 kV/mm

Important: Premier Coatings Ltd. pursue a policy to develop and continually improve all of our products and therefore the information given in this data sheet is intended as a general guide and does not constitute a warranty of specification. However, our sales personnel are committed to assist the user in establishing the suitability of the product for its intended purpose and additional specific information is available on request. Premier Coatings Ltd operate a Quality Management System registered to BS EN ISO 9001 (BSI Certificate no. Q09303) and an Environmental Management System registered to BS EN ISO 14001 (BSI Certificate no. EMS 677780).

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