

Premier Protal 7900HT

High Temperature Pipeline coating

Composition

Premier Protal 7900HT is a VOC free, 100% solids, 2-component epoxy coating.

Uses

Premier Protal 7900HT is used for coating pipelines operating at high temperatures.

Characteristics

Premier Protal 7900HT:

- Cures quickly when applied to hot pipe (allowing fast backfill),
- Can be spray or brush applied,
- Achieves high build (up to 1000 µm) in one coat, and
- Provides excellent adhesion and abrasion resistance.

Surface Preparation

Prepare surfaces by grit blasting to a clean, near-white finish Sa 2½ / SSC-SP 10/ NACE No 2.

Surface profile shall be 65-125 µm.

Preheating of the surface may be achieved by propane torch or induction coil.

Application

See *application statement* for further information.

Mixing ratio by volume: 3:1

Brush Application

Product temperature at application (brush): >15°C

Surface temperature at application: 10°C to 105°C

Mix each component individually. Add the hardener to the base and mix at a slow speed until a consistent colour is achieved, ensuring all material from the sides of the container is incorporated.

Pour mixed material onto surface and spread to a consistent film thickness (minimum of 750 µm). A wet film thickness gauge should be used to measure thickness.

Spray Application

Product temperature at application (spray)

Part A: 50°C

Part B: 40°C

Surface temperature at application: 10°C to 105°C

The equipment shall be a plural component airless spray unit with a proportioning pump capable of a volume mixing ratio of 3:1. Please consult Premier Coatings Ltd regarding recommended equipment.

Inspection

Where required, holiday detection may be used: 5kv/mm

Cleaning

Clean equipment with MEK or equivalent solvent cleaner prior to cure.

Availability

Premier Protal 7900HT is available as a pre-measured kit: 1 L, 2 L, 75 L and 800 L

Storage Conditions

Store all components upright in original packaging in a cool, dry, area.

Recommended storage temperatures: 5°C to 35°C

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.

Health and Safety

See Safety Data Sheet (SDS) for further information, prior to use.

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Typical Properties

Colour	
<i>Mixed</i>	Grey
<i>Base (A)</i>	White
<i>Hardener (B)</i>	Black
Solids	100%
Application thickness	
<i>Minimum</i>	750 µm
<i>Maximum</i>	1500 µm
Theoretical coverage (at 750 µm)	1.3 m ² / litre
Actual coverage	0.75-0.95 m ² / litre
Pot life	
25°C	30 minutes
35°C	15 minutes
Adhesion to steel	20 MPa
Maximum service temperature	
<i>Continuous</i>	120°C
<i>Intermittent</i>	150°C
Cathodic disbondment (ASTM G95)	
28 days at 80°C	5.25 mm
28 days at 120°C	8.1 mm
28 days at 150°C	8.8 mm
Hardness (shore D)	80-85
Initial handling	
25°C	4 to 6 hours
104°C	15 to 20 minutes

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).

Page 2 of 2
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