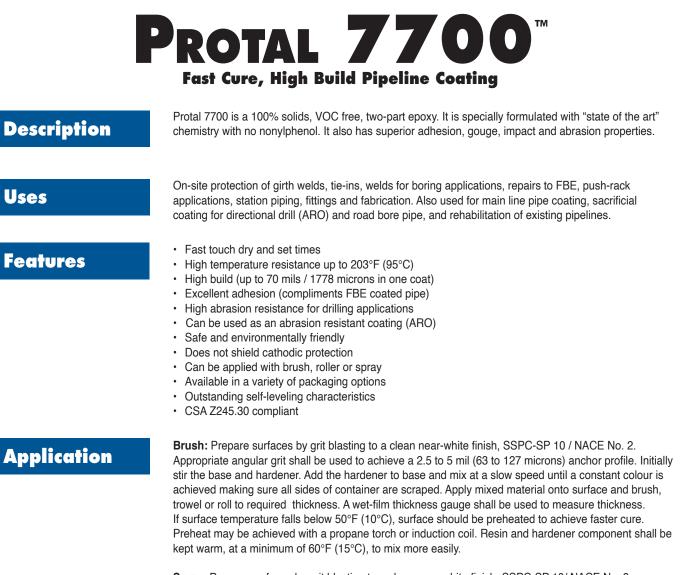
## TECHNICAL DATA SHEET



**Spray:** Prepare surfaces by grit blasting to a clean near-white finish, SSPC-SP 10/ NACE No. 2. Appropriate angular grit shall be used to achieve a 2.5 to 5 mil (63 to 127 microns) anchor profile. The equipment shall be designed to mix and atomise 100% solids epoxies. A mastic gun with a 19 to 27 thou tip is recommended. Please refer to the Protal 7700 Plural Spray Application Specification for equipment details. Part A should be heated to  $140^{\circ}$ F -  $167^{\circ}$ F ( $60^{\circ}$ C -  $75^{\circ}$ C) and Part B heated to  $110^{\circ}$ F -  $131^{\circ}$ F ( $45^{\circ}$ C -  $55^{\circ}$ C). Hose bundle shall be set at  $140^{\circ}$ F -  $150^{\circ}$ F ( $60^{\circ}$ C -  $65^{\circ}$ C). A wet on wet spray technique should be used to achieve a minimum thickness of 20 mils (508 microns). The coating thickness should be measured using a wet-film thickness gauge. The equipment settings are only guidelines and may vary based on equipment.

For complete application instructions please refer to the Protal 7700 Application Specifications.



# Protal 7700<sup>™</sup>

## TECHNICAL DATA

#### PROPERTIES

#### VALUE

Solids Content Mixed Material - (Mixed) @ 77°F (25°C) Viscosity Colour Mixing Ratio (A/B) by Volume Cure Times Pot Life @ 77°F (25°C) Pot Life @ 97°F (36°C) Handling Time @ 77°F (25°C) Shore D 70 min. Handling Time @ 117°F (47°C) Shore D 70 min. Handling Time @ 157°F (69°C) Shore D 70 min. Recoat Window @ 57°F (14°C) @ 77°F (25°C) @ 97°F (36°C) Theoretical Coverage Thickness - Weld Joints / FBE Repairs Minimum/Maximum Recommended **Thickness - Bore Pipe** Minimum/Maximum Recommended Shore D Hardness (ASTM D2240) Impact Resistance (CSA Z245.20-14) Temp. -22°F (-30°C) @ 3.0 joules Temp. 32°F ( 0°C) @ 3.0 joules Temp. 73°F (23°C) @ 3.0 joules Flexibility (CSA Z245.20-14) Temp. -22°F (-30°C) @ 3.0 joules Temp. 32°F (0°C) @ 3.0 joules Temp. 73°F (23°C) @ 3.0 joules **Holiday Detection** Cathodic Disbondment Test (ASTM G95) 24 hours at 150°F (65°C) @ -3.5 volts 28 days at 73°F (23°C) @ -1.5 volts 28 days at 150°F (65°C ) @ -1.5 volts 28 days at 203°F (95°C) @ -1.5 volts Tabor Abrasion (ASTM D4060-14) 1000 cycles, 1000 gram load Gouge Test (CSA Z245.20-14) 40 kg load, Smooth Blank Bit 40 kg load, R-33 double-Cut Burr 50 kg load, Smooth Blank Bit 50 kg load, R-33 double-Cut Burr Pull-Off Adhesion (ASTM D4541-09) Direct to Steel Over FBE Service Temperature **Application Temperature** 

### 100%

40,300 cP Dark Green 3 Parts Base: 1 Part Hardener

16 - 19 Minutes 8 - 9 Minutes 2.7 - 3.2 Hours 1.1 Hours 24 Minutes

5.25 Hours 2.25 Hours 1.25 Hour 14 ft²/30 mils/liter (1.301 m²/762 microns/liter)

20/70 mils (508/1778 microns) 25/35 mils (635/876 microns)

40/70 mils (1016/1778 microns) 45/60 mils (1143/1524 microns) Shore D 80 +

Pass – no holiday Pass – no holiday Pass – no holiday

Pass – no holiday Pass – no holiday Pass – no holiday Refer to NACE SPO188

4.0 mm 4.3 mm 8.1 mm 7.0 mm

58.8 mg weight loss

32.4 penetration depth (%) 40.7 penetration depth (%) 43.1 penetration depth (%) 51.7 penetration depth (%)

4511 psi 5113 psi -40°F to 203°F (-40°C to 95°C) -30°F to 212°F (-34°C to 100°C)

**STORAGE:** Minimum 24 months when stored in original containers @ 40°F (4°C) to 105°F (41°C). On job site where temperatures are below 50°F (10°C) product should be kept warm to mix properly (65°F to 85°F optimal).

**CLEANING:** Clean equipment with Xylene, MEK, Acetone or equivalent solvent cleaner.

**HEALTH AND SAFETY:** Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See material safety data sheet for further information.

**PACKAGING:** 1, 1.5 and 2 liter kits and 75 liter & 800 liter kits standard. Dual cartridge repair tubes (50 mL & 1000 mL) and dispensing guns available for small repair areas.



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