### PRODUCT DATA SHEET

# Protal™ 7200 Repair Cartridge (400 mL)

### **Fast Cure Epoxy Repair Coating**

# **Description**

Protal<sup>™</sup> 7200 Repair Cartridges are specially formulated for patching and repairing damaged FBE and other liquid coated pipelines. The repair cartridges are packaged in 2-component tubes that are applied with a dispensing gun (sold separately).

#### Uses

 $Repair coating for damaged FBE \ and other liquid coated pipelines. Also used as coating of cadweld areas.$ 

### **Features**

- Excellent adhesion (compliments FBE coated pipe)
- Fast cure
- High build (in one coat)
- · High abrasion resistance for drilling applications
- Can be used as an abrasion resistant coating (ARO)
- Does not shield cathodic protection

# **Application**

Surface shall be roughened approximately 1" (25 mm) around all repair areas using a Carborundum cloth or 60 to 80 grit sandpaper and than remove the remaining dust with a clean, dry cloth, brush or clean compressed air. Material can be applied by injecting material into a small container and mixing until a uniform color is achieved or utilizing the Protal™ Static Mixing Tip. Material can then be brush applied to specified thickness (minimum 508 microns). Cure times are dependent on temperature and will be extended at cooler temperatures.

\*Please refer to "Protal™ 7200 Accelerated Cure Specifications for Repairs" to achieve a 5 minute cure time.





# Protal<sup>™</sup> 7200 Repair Cartridge

### TECHNICAL DATA

#### VALUE **PROPERTIES** Solids Content 100% Mixed Material - (Mixed) @ 77°F (25°C) Specific Gravity 1.63 Viscosity 170,000 cP Colour Green 3 Parts Base: 1 Part Hardener Mixing Ratio (A/B) by Volume **Cure Times** Pot Life @ 77°F (25°C) 14 - 17 Minutes Pot Life @ 97°F (36°C) 7 - 8 Minutes Handling Time @ 77°F (25°C) 2.5 - 3 Hours Handling Time @ 117°F (47°C) 1 Hour Handling Time @ 157°F (69°C) 20 Minutes Recoat Window @ 57°F (14°C) 5 Hours @ 77°F (25°C) 2 Hours @ 97°F (36°C) 1 Hour Theoretical Coverage 14 ft2 (1.3 m2)/30 mils/liter Thickness - Weld Joints / FBE Repairs Minimum/Maximum 20/70 mils (508/1778 microns) Recommended 25 - 30 mils (635 - 762 microns) Thickness - Bore Pipe 40/70 mils (1016/1778 microns) Minimum/Maximum Recommended 45 - 60 mils (1143 - 1524 microns) 125 volts/mil (4,920 V/mm) Holiday Detection Cathodic Disbondment Test (ASTM G95) 28 Days @ 77°F (25°C) 3 mm 28 Days @ 150°F (65°C) 4 mm 28 Days @ 185°F (85°C) 6 mm 28 Days @ 203°F (95°C) 6 mm Hardness (ASTM D-2240-02) Shore D 80+ Impact Resistance (ASTM G14-04) @ 32°F (0°C) 70.6 in-lbs. (8.0 N m) Tabor Abrasion (ASTM 4060-07) -1000 cycles, CS-17 wheels, 1000 g. load 1,270 cycles per mil 15.4 mils (391 microns) Gouge Resistance (Partech Test - 40 kg load) Dielectric Strength (ASTM D-149) 450 V/mil (17,716 V/mm)

Adhesion to Steel (ASTM D-4541-02) 3,956 psi (27.3 MPa) Adhesion to FBE (ASTM D-4541-02) 2,579 psi (17.8 MPa) Service Temperature -40°F to 203°F (-40°C to 95°C)

-30°F to 212°F (-34°C to 100°C) **Application Temperature** Note: If temperature falls below 50°F (10°C), surface must be preheated and maintained throughout the cure process.

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 (18°C to 29°C optimal).

CLEANING: Clean equipment with MEK or equivalent solvent cleaner.

HEALTH AND SAFETY: Apply under well ventilated conditions. Wear suitable protective clothing and glasses. See safety data sheets for further information.

PACKAGING: 400 mL dual cartridges.

Dispensing guns and static mixing tips sold separately.



DENSO (AUSTRALIA) PTY LTD

77 - 95 National Boulevard Campbellfield, VIC 3061 Tel: +61 3 9356 7600 Fax: +61 3 9356 7699

www.densoaustralia.com.au

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