

CODE: BP-900

PRODUCT NAME:

Bitumen Primer

DESCRIPTION:

BP-900 is a product based on oxidized Bitumen with good resistance to water and corrosive environments. It is a suitable primer for corrosion protection of onshore, offshore and underground pipelines, tanks and steel structures for internal and external application. BP-900 has good penetrative and excellent adhesion to most surfaces. It can be used in pipe coatings as an adhesive layer between the cleaned steel and wrap or bitumen mastic (BP-900).

TECHNICAL DATA:

| | |
|--|---|
| Binder | Modified Bitumen |
| Pigment | No pigments |
| Finish | Semi gloss |
| Shade | Black |
| Substrate | Cleaned or blasted steel, Concrete |
| Volume solids | 45 ±3% |
| Typical dry film thickness | 75-125 Microns per one coat |
| Number of coat | One or two |
| Flash point | 32 °C |
| Specific gravity | 1± 0.05 Kg/Lit |
| Theoretical spreading rate - one coat (at 100 microns) | 4.5 M ² /Lit |
| Application method | Conventional or air less spray , brush , roller |
| Thinner / Cleaner | Not Required |
| Packing | 18 kg |
| Shelf life(cool and dry place) | 12 Months |

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Drying Time

| Temp | Touch dry | Hard dry | Overcoating | |
|------|-----------|----------|-------------|-----|
| | | | Min | Max |
| 15°C | 6 hours | 30 hours | 24 hours | - |
| 25°C | 4 hours | 20 hours | 20 hours | - |
| 40°C | 2hours | 10 hours | 10 hours | - |

Note: Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

Surface Preparation

All surfaces to be coated should be clean, dry and free from contamination .Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning

Abrasive Blast Cleaning

For immersion service, BP-900 must be applied to surfaces blast cleaned to a minimum of SA 2 ½ (ISO 8501-1:1988) or SSPC-SP10.However, for atmospheric exposure BP-900 may be applied to surfaces prepared to a minimum of SA 2 ½(ISO8501-1:1998) or SSPC-SP6.

Surface defects revealed by the blast cleaning process, should be ground, filled, or treated in the appropriate manner.

A surface profile of 30-40 microns is recommended.

Primed surfaces

BP-900 can be applied over approved anti-corrosive primers. The primer surface should be dry and free from all contamination, and BP-900 must be applied within the overcoating intervals specified.

Area of breakdown, damage, etc., should be prepared to the specified standard (e.g. 2 ½(ISO 8501-1:1998), or SSPC-SP6, abrasive blasting, or SSPC-SP11, (hand/ power cleaning) and patch primed prior to the application of BP-900.

Concrete Surfaces

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 6%. All surfaces should be clean, dry and

Surface preparation shall not take place in the following conditions:

- 1-At temperature below 5 °C
- 2-When the relative humidity greater than 85%
- 3-When the metal surface temperature is less than 3 °C above the dew point
- 4-Outside day light hours on exterior locations

Application Method:

This material is a one component coating and should always be mixed thoroughly with a power agitator before application. Stir during application to maintain uniformity of material.

Application Equipments

| | |
|----------------|---|
| Air less Spray | Tip range 0.017-0.019 inch Total output pressure at spray tip not less than 141 Bar (2000 psi) |
| Air Spray | Nozzle orifice 1.8mm Nozzle pressure: 3-5 Bar (43-72 psi) |
| Brush | Typically 30 mic can be achieved. |
| Roller | Typically 30 mic can be achieved. |

Flush Equipment with recommended Cleaner before and after use

ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above dew point.
- Never apply coatings under reverse environmental condition.
- In hot climate, material temperature should be 20 to 25 °C prior to mixing.
- For satisfactory cure, air and surface temperature must be above 10 °C
- Paint shall not be applied when wind speed is in excess of 7 m/s

| | |
|----------------------|-------------|
| Air temperature | 10 to 40 °C |
| Surface temperature | 10 to 50 °C |
| Material temperature | 15 to 40 °C |
| Relative humidity | MAX80 % |

HEALTH AND SAFETY:

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.

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