

OBIC 1200

Semi-Structural Polyurea Hybrid Coating

Description

OBIC 1200 is a 1:1, fast-set, spray applied, two component polyurethane coating that is 100% solids and contains Zero VOC's. Once cured, it is highlighted by:

- High flexural modulus semi structural monolithic coating for culvert and pipe line rehabilitation
- Excellent impact resistance and abrasion protection
- High abrasion resistance for harsh environments
- Seamless monolithic waterproof membrane that is tough and durable
- 100% Solid

Application Recommendations

OBIC 1200 adheres extremely well to properly prepared surfaces. Ideal for:

- Storm water, waste water, steel, or concrete pipes.
- Industrial applications
- Municipal applications

OBIC 1200 must be applied through a two component, high pressure proportioning unit.

- Installation Temp 0°F to 150°F
- Mix Ratio 1:1
- VOC 0
- Color Grey

Mixing Instructions: Agitate resin blend (B) component thoroughly with a drum mixer before use to disperse pigment and assure homogeneity. Do not thin. Do not agitate in air and moisture. Consult a Technical Representative regarding specific metal/steel surface preparation and priming requirements. Some applications may require primer - consult manufacturer.

Component Properties

Property	A Side	B Side
Viscosity	350 cps	650 cps
Gel Time	10-12 seconds	
Tack Free Time	20-30 seconds	
Initial Cure for Light Traffic	30 minutes	
Return To Service	60 minutes	

Physical Properties

Property	Value
Hardness, D-2240	70 D
Tensile Strength, D-412	> 4,200 psi
Flexural Modulus, D-729	> 93,000 psi
Ultimate Elongation, D-412	20%
Taber Abrasion, D-4060	64.6 mg
Impact Strength (direct), C-14	> 50 lbs
Adhesion: • Concrete • Steel	> 350 psi > 2,000 psi
Flexibility (180° bend over 1/2" mandrel), D-522	Pass at 40 mils
SWAT, ASTM G210-13	Pass

*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

Technical Data Sheet



Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion. Minimum recommended surface preparation:

Steel: Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (3 mils / 75 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs, as required.

Concrete & Masonry: SSPC-SP13/NACE 6 or ICRI No. 310.2R-2013. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Moisture content: Concrete shall be 5% maximum as per ASTM F2170 & F2420. Substrate and air temperature must be 5% above dew point and rising before material application.

Testing: If required, holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Equipment Recommendations

Hose Temp	150-165°F, Set even with Side A
A Side Heater	150-165°F (160°F)
B Side Heater	150-165°F (160°F)
Spray Gun	Fusion, P2 Elite
Module	01, 1.5, 02 with appropriate pump
Pump	HXP2, EXP2, PHX25, PHX40
Dynamic Pressure	> 2,200 psi
Static Pressure	2,400-2,600 psi

Packaging, Storage & Shelf Life

OBIC 1200 is available in 55 gallon drums, and 275 gallon totes. It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months under normal conditions in factory sealed containers.

Safety

Read and Review entire SDS prior to use.

Basic safety for personal protection: Avoid contact with eyes and skin, long sleeve overalls or disposable overalls, rubber gloves, splash shield or safety glasses with splash guard, do not inhale or ingest, wear respirator or fresh air hood, and spraying indoor requires forced ventilation.

Warranty: OBIC LLC will warranty product only or refund the price of material it finds to be defective that has been installed properly. Except as stated above, the company makes no warranty of any kind, either express or implied, including warranties of merchantability of fitness for a particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any changes or expenses of any nature incurred without its written consent.