

OBIC 1000

Aromatic Polyurea Coating

Description

OBIC 1000 is a fast-set, spray applied, two component polyurea that is 100% solids and contains Zero VOC's. It is highlighted by:

- Excellent corrosion protection and chemical resistance
- Excellent impact resistance even in sub-freezing weather
- High abrasion resistance for harsh environments
- Seamless monolithic waterproof membrane that is tough and durable
- Odorless, 100% Solid

Application Recommendations

OBIC 1000 adheres extremely well to properly prepared metal, wood, concrete, fiber glass, and other various metal surfaces. Ideal for:

- Manhole, Wet Wells and Pump Stations
- Secondary containment
- Waterproofing
- Industrial coatings
- Potable water containment
- Water Treatment
- Industrial facilities
- Food Processing Plant
- Bridge Deck

OBIC 1000 must be applied through a two component, high pressure proportioning unit.

- Installation Temp: 0°F to 150°F
- Mix Ratio: 1:1
- VOC: 0
- Colors: Bright Orange / Light Tan / Grey

Component Properties

Property	A Side	B Side
Viscosity	350 cps	650 cps
Gel Time	11-15 seconds	
Tack Free Time	20-30 seconds	
Return To Service	60 minutes	

Physical Properties

Property	Value
Hardness, D-2240	48 D
Tensile Strength, D-412	3,315 psi
100% Modulus, D-412	1,668 psi
200% Modulus, D-412	1,960 psi
300% Modulus, D-412	2,650 psi
Tear Resistance	417 lbf/in
Ultimate Elongation, D-412	395%
Taber Abrasion, mg loss CS17	15 mg
Flexibility, 1/8 mandrel	Pass
SWAT, ASTM G210-13	Pass

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

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.

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	> 2,000 psi
Static Pressure	2,200-2,400 psi

Packaging, Storage & Shelf Life

OBIC 1000 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.