

Simply OBM Fluid-Applied Waterproofing

High Build, Cold, Fluid-Applied Below Grade and Irma Roofing System

Description

Simply OBM is a ZERO-PERM cold, fluid-applied osmosis barrier and high build reinforced waterproofing membrane system that consists of a fast curing single component, water catalyzed liquid applied, coal tar free, polyurea roofing and waterproofing membrane. The system that is be fully adhered and reinforced and may be applied at any field thickness from 30 to 2500 mils in one or more application horizontally and 60-90 mils vertically in one application. The product is utilized for between slab, blindside waterproofing or sandwich plaza deck and IRMA roof applications for both plywood and concrete.

Features

- Economical
- Resistant to Bacterial Growth
- Not For Use in SCAQMD Areas
- Meets the Criteria of ASTM C-836 & E-96
- Non-Gassing
- Fast Curing
- Coating may be applied at any required thickness horizontally
- Highly Flexible over extreme temperatures
- Low Odor
- Meets SCAQMD VOC Requirements
- Fills Ponds and Low areas
- Applied at any required thickness
- LEED Certified
- Controlled Cure
- Labor Saving
- User Friendly
- Fast Recoat Times
- No Heating or Kettles

Typical Uses

- Blindside Waterproofing
- Under-Slab Waterproofing
- Tunnels
- Planters
- Between Slabs
- Terrazzo and Tile Floors
- I.R.M.A Roofing
- Under Malls, Plazas and Promenade Decks
- Green Roof Waterproofing
- Green Concrete

Packaging

5 Gallon (18.9 liter) pail
55 Gallon drum, net fill 50 Gallons (189 liters)

The Simply OBM System provides an outstanding barrier that reduces water vapor transmission to practically zero. Aluminum foil has been laminated between 2 layers of Polyester film, thus preventing the ingress of vapor moisture, salt spray, corrosion, oxidization, chemical reactions, oils, greases, and other causticity damage.

Applicable to polyurethane, polyisocyanurate, phenolic, cellular glass, nitrile rubber, polystyrene, urethane as secondary vapor barrier, but can be used as primary vapor barrier under a protective jacketing for cryogenic, low temperature, cold storage, petrochemical projects, and specialty industries including liquefied natural gas (LNG), liquefied petroleum gas (LPG), ammonia, ethylene, butane, propane, methanol, LN2, etc. Specify for replacement for mastics, rubber sheeting, glass cloth, and other interior and exterior jacketing materials.

Colors

Light Grey and Dark Grey.

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Technical Data, OBM - Horizontal

Hardness, ASTM D-2240	10 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	50 ± 10 pli 21 ± 3.5 kNm
Tensile Strength, ASTM D-412	300 ± 50 psi 3.45 ± 0.3 MPa
Ultimate Elongation, ASTM D-412	>1000 ± 50%
Specific Gravity	1.12
Total Solids by Weight, ASTM D-236	95 ± 2%
Total Solids by Volume, ASTM D-2697	94 ± 2%
Viscosity, at 80°F (27°C)	4500 ± 2000 cps
Service Temperature	-25°F to 200°F -31.7°C to 93.3°C
Meets the Criteria of ASTM C-836	
Meets the Criteria of ASTM E-96BW	

Technical Data, OBM - Vertical

Hardness, ASTM D-2240	10 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	50 ± 10 pli 21.3 ± 1.8 kNm
Tensile Strength, ASTM D-412	650 ± 50 psi 3.45 ± 0.3 MPa
Ultimate Elongation, ASTM D-412	>1000 ± 50%
Specific Gravity	1.25
Total Solids by Weight, ASTM D-236	95 ± 3%
Total Solids by Volume, ASTM D-2697	94 ± 3%
Viscosity, at 80°F (27°C)	Pass
Service Temperature	-25°F to 200°F -31.7°C to 93.3°C

Osmosis Barrier Membrane

Features

- **Absolute vapor barrier**
- **Extreme tear resistance**
- **Extreme puncture resistance**
- **Great temperature application**
- 100°F to 300°F (-70°C to 150°C)
- **Lightweight and flexible**
- **Easy to cut and quick to install**
- **Fast, and safe installation**
- **Low maintenance costs**
- **Works well in all climates**
- **Environmental friendliness, safety, and non-toxicity**
- **Fire rating: Class 1/Class A**

Property	Value
Aluminum foil sandwiched between two layers of polyester film	12 µm polyester film 25 µm aluminum foil film 12 µm polyester film
Total thickness	64 µm
Temperature range	-100°F to 300°F
Volumetric mass	1.93 kg/dm ³
Water vapour permeability	0.00 Perms ASTM E 96 Procedure E (100°F, 90% R.H.)
Tensile strength Yield strength Tear resistance (Elmendorf)	119 Mpa (17,300 psi) 70 N /cm (40 lbs/inch) 400 g /mm
Flame spread	15 ASTM E-84
Smoke development	35 ASTM E-84

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Application

Simply OBM shall be applied directly with a brush, squeegee, trowel or phenolic core roller. Apply Simply OBM evenly over the primed or unprimed surface. A 30 mil construction coat may be applied for temporary waterproofing in horizontal surfaces until the finish system is applied. However, due to the probability of damage more coating may be needed to create a smooth finish. Attention to proper slope to drain is essential for proper waterproofing.

Apply Simply OBM approximately 60 mils or 25 sq/ft p/gallon and embed the OBM (Osmosis Barrier Fabric) into the wet OBM membrane. Overlapping is acceptable when the OBM membrane is applied between the film or 4" Reinforcing Tape is applied over the lap.

Apply 60 mils minimum over the top of the cured or wet Simply OBM membrane and install protection board.

When vertical application is necessary, apply Simply OBM I-10 Vertical Grade by roller, brush or trowel. Consult the Simply OBM Data Sheet for further application instructions.

Curing

Simply OBM is sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in thickness of application. Simply OBM is very gluey and should be covered as soon as possible with fabric or drainage board.

Primer

No primer is generally necessary on plywood. Primer is recommended on concrete. If primer is required apply an even coat of Simply Primer #2 (see data sheet) at approximately 100-300 sq/ft p/gallon leaving no puddles of primer. Allow primer to become firm and thumbprint tacky (primer is tacky, but does not transfer onto the finger at touch) and apply Simply OBM. Compatibility must be confirmed by testing and coverage rates may vary with the texture of the surface. All concrete surfaces should have an ICRI CSP #3 Surface Preparation. Grinding the surface is not acceptable.

Mixing

Mix Simply OBM with one to two quarts of water. The Simply OBM should be thoroughly mixed using a mechanical mixer at slow speed to ensure a homogeneous material. Take care not to allow entrapment of air into the material.

Joints, Cracks, And Flashing

After primer is thumbprint tacky, bridge the joints and cracks with 4 inch CI-95 Self-Adhesive Polyester Tape. Do not allow Reinforcing Tape or CI-95 to become wet or exposed to heavy moisture before coating. Reinforcing Tape must be hand applied with firm downward hand pressure over the entire width and length of the tape. Do not use rollers or brushes to apply tape. Or, fully reinforce the membrane with Tie-Tex 325 or 326 fabric.

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Protection

Simply OBM System may be protected from damage with the use of 25 mil Double D fabric as a single ply protective mat, a drainage mat, or approved equal. The Simply OBM membrane must be fully cured and tack free before applying protection board or other materials over the membrane.

Equipment Cleanup

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

SYMPLY WATERPROOFING products support sustainable and energy-efficient building practices, including efforts toward achieving LEED® certification (LEED® for New Construction & Major Renovations, LEED® for Core and Shell, LEED® for Existing Buildings and LEED® for Homes).

For Technical Support contact Simply Waterproofing via email at: info@simplywaterproofing.com or visit www.simplywaterproofing.com.

Storage

Simply OBM has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

Limitations

Surfaces must be dry, clean and free of foreign matter. Not for use over hot rubberized asphalt without written consent of Simply Waterproofing Inc. Not UV stable. Cannot withstand extended direct wear or abrasion. Containers that have been opened must be used as soon as possible. Simply OBM Osmosis Barrier should not be used over asphaltic surfaces without the use of Simply-grp WB or 121 as a primer or as recommended by Simply Waterproofing Inc. prior to the specific application.

Warning

This product contains Aromatic Hydrocarbons, Isocyanates and Solvent. Will accelerate the cure time. Use caution in thickness of application.

HEALTH AND SAFETY INFORMATION IS GIVEN IN THE SAFETY DATA SHEET (SDS) AND THE PRODUCT DATA SHEET AVAILABLE FOR THIS PRODUCT. THESE SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.