

ORBL/BM

Product Description

- 100% solids, two component pure polyurea
- Contains no VOC's
- Good resistance to inorganic bases, acids and hydrocarbon solvents
- Fair resistance to oxygenated and chlorinated solvent
- Good resistance to hot water up to 180° F

Primary Applications

- Hand mix/batch material
- Use as a non immersion grade tank lining for steel and concrete tanks
- Lining of material handling equipment
- Coating of urethane or expanded polystyrene foam insulation
- Waterproofing of structures
- Protection of concrete from acid and alkaline materials
- Use as an environmental containment barrier with or without geotextiles
- Used for lining interior of truck beds
- Use as tank lining material

Color

Standard is black. Contact Oak Ridge Foam & Coating Systems, Inc. for additional colors.

Storage

12 months in unopened containers at 50-90° F

Typical Physical Properties

Tensile Strength	ASTM D412	2800
Elongation (%)	ASTM D412	225%
Tear Strength (PLI)	ASTM D-624	350
Hardness (shore D)	ASTM D-2240	60
Abrasion resistance	Excellent	
Viscosity B side	CPS	500-600
Viscosity A side	CPS	500-600
Ratio A/B		1:2
Density B side	1.025	
Density A side	1.14	
Flash point	ASTM D-56	>720° F
VOC Testing	CAN/ULC-S774	P >200° F
Weight	8.5 lbs/gallon	
Gel Time	25 to 30 minutes	
Tack Free Time	about 1 hour	
Foot traffic	4 hours	
DFT coverage	40 mils	40 sq ft/gl

Primer

ORPR811 is the recommended primer for concrete, wood and metal substrates

Toxicity

-Iso component contains polymeric isocyanate fresh air supply-respirator, Gloves and protective clothing during application.

Application:

Surface Preparation: General: Surface must be properly prepared prior to application. This could entail shot blasting or grinding, scrubbing, high pressure detergent washing, steam cleaning or solvent wiping of the surface to remove dirt, oil, grease pollutants and other contaminants. Allow the surface to thoroughly dry. Once dry, remove loose or excess mortar or other material that may work to impair adhesion.

Density

Part A	9.2lbs/gallon
Part B	7.4lbs/gallon

Materials needed to mix: 2 ½ gal or 5 gallon pail, electric drill and spiral mixer.

Mixing/Stirring:

1. Pour part "A" into a clean pail
2. Pour part "B" into the same pail with the part "A"
3. Mix thoroughly
4. **Very Important**-Mix "B" into "A" in **small quantities** slowly. Product has approximate ½ hour working time.

Application: Material can be applied by brush, roller, squeegee or low pressure spray equipment. Ensure product is applied in an even and uniform manner, making sure recesses and edges are thoroughly coated.

Handling and storage: The reaction of isocyanates Part A with water leads to the formation of insoluble ureas and carbon dioxide gas, which gas become contaminated with moisture should not be subsequently sealed; otherwise a hazardous increase in pressure may result.

ORBL-BM/C: Resistant to short-term exposure to low temperatures. However, low temperatures will result in increased viscosity, which makes handling more difficult. It is not advisable to store ORBL-BM for long periods below 32°F (0°C). The recommended storage temperature for ORBL/BM is 60°-95°F. A small amount of insoluble solids in the A-side liquid product does not usually cause difficulties in handling or product performance. However, if necessary, the liquid product may be filtered through a suitable in-line filter.

Warranty

The technical data and any other printed information furnished by Oak Ridge are true and accurate to the best of our knowledge. ORBL/BM conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. Oak Ridge makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.
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Manufacturer of High Performance Foam/Coatings & Application Equipment

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