

PRODUCT IDENTIFICATION

PERMAROOF® MB SMOOTH

#400STSM150 (sold by
pallet-20 rolls) 3' x 56' 8" /
150 sq. ft. / roll

A SMOOTH SURFACED, FIBERGLASS REINFORCED, MODIFIED BITUMEN
MEMBRANE

Description

PERMAROOF MB Smooth is a smooth surfaced modified bitumen membrane with fire resistant characteristics. It consists of specially selected bitumens, modified with compatible SBS elastomers and a glass reinforcing mat. PERMAROOF MB Smooth is also asbestos free. PERMAROOF MB Smooth meets the requirements of ASTM D 6163, Type I, Grade S.

Uses

PERMAROOF MB Smooth is designed for application in both hot and cold applied roof systems where a smooth surfaced membrane is desired.

Limitations

PERMAROOF MB Smooth is not intended to perform under ponding conditions. Positive drainage required. PERMAROOF MB Smooth is not to be exposed to solvents, oils or other contaminants harmful to asphaltic materials. Backnail on roofs with slopes 2:12 (2"/foot) or greater.

Advantages

PERMAROOF MB Smooth resists thermal shock and splitting. Meets building codes and insurance requirements.

General Application

Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down and numerous other conditions.

The following application information is designed to serve as a general guide. Detailed specifications should be prepared based upon each roof's conditions.

Structural Deck

Must be properly designed and structurally sound.

Drainage

Ponding conditions are unacceptable and will adversely affect performance of any roofing system. If positive drainage does not exist, water removal must be facilitated by lowering drains, and/or installing additional drains or tapered insulation.

Insulation

Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day.

Installation Procedures

According to job specifications, prepare the surface to be covered:

- Replace areas of wet insulation, deteriorated deck and wood components.
- Install roof insulation or nailed base sheet and multiply base ply system.

Cold Process PERMAROOF MB Smooth

For application in cold process adhesive, cut PERMAROOF MB Smooth in 16 to 18' lengths maximum. Allow lengths to relax.

Above 55°F: 30 minutes minimum

Below 55°F: 60 minutes minimum

Hot Applied PERMAROOF MB Smooth

Type IV hot asphalt is recommended for the PERMAROOF MB Smooth. Hot applied modified bitumen membranes require special application

TECHNICAL DATA

Thickness ASTM D 5147-97	80 mils 2.03 mm
Tensile Strength @ 0°F ASTM D 5147-95	120 lbf/in. MD 115 lbf/in. XMD
Elongation at 0°F ASTM D 5147-95	2.6% MD 2.5% XMD
Puncture Resistance ASTM E 154-88	70 lbf
Tear Strength @ 77°F ASTM D 5147-95	70 lbf MD 80 lbf XMD



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PERMAROOF[®] MB SMOOTH

techniques under cool ambient temperatures and/or moderate wind conditions. Consult the Republic Technical Department for specific recommendations.

Application

Plan the placement of PERMAROOF MB Smooth to ensure the water flows over or along, but not against, the exposed edges.

Starting at the low point of the roof, apply a uniform and continuous application of adhesive according to specifications. Embed ply sheets as specified. Avoid walking on plies during placement.

Place PERMAROOF MB Smooth in a uniform and continuous application of adhesive. Lap selvage 4" minimum; end laps 6" minimum. Offset laps from base laps. Stagger ends 36" minimum. To assure complete and uniform adhesion, adhesive should exude past lap edges. Install flashings as specified.

Precautions

Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.

Maintenance

A scheduled, periodic maintenance inspection of the PERMAROOF MB Smooth installation is recommended. Punctures may occur through mechanical damage, vandalism, etc., and should be attended to as quickly as possible. Always follow NRCA standards.

Technical Services

Advice on technical concerns may be solicited any time by contacting Republic Powdered Metals, Inc. For project start-ups where the contractor has received material and the work is to commence, it is necessary to coordinate the involvement of Republic's Independent Sales Representative and Technical Field Service Department. A field service representative will be dispatched to the project for start-up assistance and final inspection to ensure a proper installation.



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The information provided on this data sheet is effective as of October 2005 and supersedes all previous data concerning this product and its application.

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