

PRODUCT IDENTIFICATION

PERMAROOF[®] MB SELF ADHERED

#400SAFR100 (sold by
pallet-20 rolls) 39 3/8" x 32'
10" / 100 sq. ft. / roll

A FIRE RATED, GRANULE SURFACED, POLYESTER REINFORCED, SELF ADHESIVE
SBS MODIFIED BITUMEN MEMBRANE

Description

PERMAROOF MB Self Adhered is a self adhesive SBS Modified Bitumen membrane with fire resistant characteristics. It consists of specially blended SBS modified asphalt above the polyester reinforcement with an underlying SIS modified self adhesive bitumen blend to adhere the membrane in approved configurations. PERMAROOF MB Self Adhered is surfaced with a factory applied ceramic granule. The bottom of PERMAROOF MB Self Adhered is provided with a perforated and split release film to allow for easier handling and removal during installation. The selvedge is also protected with a release film to assure excellent lap adhesion. In addition, a six inch wide factory end lap with a release film is provided at the core end of each roll to assist in construction of a water-tight end lap. PERMAROOF MB Self Adhered meets the requirements of ASTM D 6164, Type 1, Grade G.

Uses

PERMAROOF MB Self Adhered is designed for use as the top sheet in a self adhered modified bitumen membrane roof system. PERMAROOF MB Self Adhered may also be used as the top sheet in a flashing installation. In addition, PERMAROOF MB Self Adhered may be specified as a component in a variety of roofing and waterproofing applications as specified by Republic.

Limitations

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

Advantages

PERMAROOF MB Self Adhered 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 your 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.

Application

Install PERMAROOF MB Self Adhered over approved substrates only. Wood, concrete, metal and Dens-Deck must be primed with PRIMER prior to application of PERMAROOF MB Self Adhered membranes. Sand surfaced base sheets are not acceptable substrates. Temple Fiberbase HD (six side coated wood fiber

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	70lbf
Tear Strength @ 77°F ASTM D 5147-95	70 lbf MD 80 lbf XMD



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insulation) is the only approved wood fiber insulation for use under PERMAROOF MB Self Adhered membranes.

Plan placement of PERMAROOF MB Self Adhered to ensure that water flows over or along, but not against the exposed edges. Starting at the low point of the roof, lay out sheet to assure all seams are straight and properly aligned with the roof edge. Align the factory applied selvage release film on the roof field side of the sheet, not along the roof edge.

Fold back PERMAROOF MB Self Adhered lengthwise, then remove the first half of the perforated release film. Carefully fold the sheet back onto the substrate and adhere the first half. Press the membrane into place with firm, even pressure to assure positive adhesion. Avoid voids, wrinkles, and buckling. After first half is adhered, fold back other half of sheet. Remove release film backing and adhere remaining portion of sheet to the substrate in the same manner.

Position and apply second roll of PERMAROOF MB Self Adhered parallel to the first roll, fully overlapping the release film on the first roll a minimum 3.5" (89mm). With the first and second roll properly placed, aligned, overlapped, and adhered, remove the release film from the previous sheet's selvage. Press the selvage to fully adhere, using firm, even pressure to assure positive adhesion. Continue application of all subsequent rolls in the same manner.

Overlap PERMAROOF MB Self Adhered end laps 6" minimum of release film from the top sheet until ready to seal end lap. Stagger end laps at least 36" (914 mm). No special end lap treatment is necessary if using the factory end lap which is at the core of each roll. When constructing end laps onto granule surfaced sections, embed granules into the membrane using a heated trowel. Alternately, seal end laps.

Roll the finished PERMAROOF MB Self Adhered surface to assure positive adhesion. Use an 80 lb linoleum roller, water filled lawn roller, or similar weighted roller to provide sufficient pressure to finished membrane surface.

Cool Weather Conditions: Rooftop temperatures of 140°F (60°C) must be attained to fully activate the self adhesive backing and laps. Ultimate system laminate strengths are not fully achieved until PERMAROOF MB Self Adhered equilibrates at or above this temperature.

Under weather conditions where PERMAROOF MB Self Adhered will not achieve the proper heat cycle temperature, alternate heat sources are recommended to obtain positive adhesion of end laps, side laps, and other critical areas.

Heat overlap areas of PERMAROOF MB Self Adhered with an electric powered hot air welding tool, such as one used to weld single ply laps. Apply heated air evenly to overlap areas until surface becomes warm and glossy in appearance. Do not overheat and cause bitumen to liquefy and flow. Join heated overlap areas immediately and apply pressure using a hand seam roller. Do not allow traffic on lap areas until cool.

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 Self Adhered 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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