Technical Data Sheet

AQUASTOP MEMBRANE M-3741 PMB

Modified Butiminous Torched-on Membrane

PRODUCT DESCRIPTION

AQUASTOP Membrane M-3741 PMB is a modified bituminous waterproof membrane made with styrene-butadiene-styrene (SBS) as a modifier and reinforced with polyester fabric. The surface of the membrane is coated with an isolating layer of polyethylene (PE) film, fine sand (S), or mineral granules (M).

- ▶ Strong adhesion
- ▶ High puncture resistance and durability.
- ▶ Root resistance
- ▶ Long lifespan

DESIGN USE

Waterproofing applications and engineering projects. It is particularly suitable waterproofing of industrial and civil building roofs.
For exposed applications, the membrane is surfaced with opaque mineral granules that serve as the upper isolating layer.

PHYSICAL DATA

Colour Range	Black
Elongation at Break	> 150% (ASTM D412)
Tensile strength	> 8.0 MPa (ASTM D412)
Puncture resistance	1341 N
Tear Strength	45 KN/m (ASTM D624)
Heat Resistance	90'c, no flowing, no dripping (passed)
Thickness	3.0, 4.0, 5.0 mm
Length	7.5, 10.0 meter
Width	1.0 meter
Application Method	Hot Melt; Hot Bond construction

Construction Process

Step 1 : Base / Substrate preparation (concrete must be clean, hard, and level)

Step 2: Additional layer, non-curing butimen coating (1mm)

Step 3: M-3741 PMB sheets paste construction by hot melting

Step 4: Exhausting and compaction

Step 5: Water permeability test

Step 6: Construction of the protection layer

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APPLICATION METHOD

Substrata treatment: The surface of substrata must be clean, hard and level.
Construction of addition layer: It is essential for some detail parts like internal and external corners, deformation joints, eaves trough or tube roots to construct additional layer. At first, non-curing coating should be bladed on the additional layer. Then a piece of sheet should be tailored according to the pre-calculated size and shape and paved above the non-curing coating.

Sheets paste construction by hot bond： When the non-curable coating is used in the composite construction of hot bond waterproof membrane, the thickness of the non-curable coating shall meet the relevant specifications; Sheets paste the waterproof membrane while the non - curing coating is applied.

Treatment of overlap joint: The width of overlap joint should be 100mm. Overlap joints should be treated with edge sealing alone and the hot bonding construction is essential to the sheet. If the width of melted asphalt spilled from overlap joints is about 3~5mm, that's ok.
Permeability test: It is essential to do permeability test of waterproof layer according to requirements of construction scheme.
Construction of the protection layer: The protection layer must be setup according to the relevant standard.

Precautions

- ▶ Stop construction when the weather is above or equal to 5 winds or rainy and snowy day. Temperature of construction is best above 0℃
- ▶ If it is rainy during the construction process, some protective measures should be taken for the sheets which have been pasted well.
- ▶ The distance between the nozzle of flame heating apparatus and the sheet should be appropriate. The sheet should be heated evenly, when the color of melted surface of the sheet is black-lighted, it is just right.
- ▶ In order to safe construction environment, fire-fighting equipment's are essential.

Transportation & Storage

Various kinds of sheets membrane should be transported or stored respectively and marked clearly.

Do not expose to the weather, keep ventilated. Temperature of storage should be below 50℃. More than two-layer sheets are not allowed for stacking vertically during the process of transportation, while only monolayer is allowed during the storage vertically. Sometimes a tarpaulin is essential for a rainy day or sun-shade. Avoid the sheet to be bent or pressed laterally during the transportation process.

Under normal circumstances, the shelf life of the product is 1 year.

Safety & Health

Please read the safety manual carefully, our sefety experts will be pleased to give you advises about safety, health and environmental issues.

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DISCLAIMER	*The above information is given to the best of our knowledge based on laboratory testing and practical experiences. The information in this data sheet may be subject to changes from time to time and without notice due to production refinements arising from continuing research and evaluation programmes which may occasionally result in marginal changes in the coating properties.*

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