

# 9405F



## MS-500 HEAVY DUTY WATERPROOFING MEMBRANE Data Sheet



### Self-Adhering, Waterproofing Membrane

- High-tack SBS rubberized compound
- Best waterproofing protection
- Blocks air, vapour & water
- 60 mil thick
- Full membrane adhesion
- E-Z Installation

**MS-500 Heavy Duty Waterproofing Membrane** is the key component of the Moisture-STOP system, and offers the ultimate waterproofing protection. This heavy duty product is a 60 mil thick SBS rubberized asphalt which is laminated with a tough polyethylene film. When the release liner is removed, the high tack of the product adheres to most building materials and provides maximum protection to masonry, wood and metal and approved foam surfaces for above and below grade applications. Product sets to form a positive air, water and vapor barrier.

#### TOOLS REQUIRED

- Gloves & safety glasses
- Chalk line
- T- square
- Paint roller and metal paint tray
- Knife
- Measuring tape

#### 1 ROLL PER BOX

#### SURFACE PREPARATION

Surface must be dry and clean. When using a pressure washer allow for all surfaces to fully dry prior to commencing membrane application. As with all peel and stick membranes, if the system is applied to a wet or damp substrate, the membrane and accessory products WILL peel from the wall. Allow for adequate drying time. When waterproofing older, cracked, or unlevelled poured or block foundations, use a quick drying mortar to fill cracks, repair damaged areas and level the surface. Newly poured concrete should be allowed to cure and should also be dry prior to installing MS-500 foundation waterproofing system. When removing forms, spills and excess concrete should be scraped from the surface, and voids repaired.

#### STEP 1

##### Apply liquid bonding agent.

Apply MS-200 Bonding Agent to all surfaces to be covered. All surfaces must be sealed with MS-200 Bonding Agent to ensure proper adhesion. Let the MS-200 Bonding Agent set up for 1-2 hours before applying MS-500 Heavy Duty Waterproofing Membrane.

#### STEP 2

##### Reinforce the wall, corner and footing joint.

Cut individual reinforcement strips for the base of the wall where footing and wall surfaces meet. Reinforcement strips should cover the horizontal plane of the footing and run up the vertical wall surface by a minimum of 12". Subsequent strips must overlap each other. Overlap indicators are printed on the membrane. For corners, cut strips to overlap corners.

#### STEP 3

##### 'Arrowhead' corner gussets.

Corner Gussets must be installed to protect all inside and outside corners that have been cut and positioned. Gussets should measure approximately 6" in width and 9" in height.

Trim the bottom half of the gusset and remove the corner so that that one half of the gusset forms a 'V'. Remove the release film and position the gusset as such to ensure that it seals the corner. In order for the gusset to adhere to both surfaces of an outside corner, simply make two cuts from the corner outwards diagonally to release any tension and allow for the membrane to adhere to the opposing substrates. A slit Gusset should resemble the feathers of an arrow.

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See MSDS for more info

#### TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS

|                                      |                     |
|--------------------------------------|---------------------|
| Weight                               | 75 lbs.             |
| Elongation (ASTM D-412)              | > 300%              |
| Tensile Strength (ASTM D-412)        | > 300 psi           |
| Water Vapor Transmission (ASTM E-96) | 0.03 perms          |
| Flexibility @ -20°F (ASTM D-1970)    | Pass                |
| Application Temperature              | 40°F Rising         |
| Thickness                            | 60 mils (1.5mm)     |
| Roll Length                          | 66.6 ft.            |
| Roll width                           | 3 ft.               |
| Gross Coverage                       | 200 ft <sup>2</sup> |
| Top Surface                          | Black HDPE film     |
| Bottom surfaced                      | Siliconized Release |

**Approx. Shipping Weights:** (Note: All approx. weights include container.)

200 sq. ft. (36" x 66.7") 16/pallet 75lbs.

### CAUTION IRRITANT

MAY IRRITATE SKIN.

Do not get on skin. Keep out of reach of children.

FIRST AID TREATMENT: Contains asphalt, petroleum oil, calcium carbonate, fiber glass. If on skin, rinse well with water.

#### STEP 4

##### Apply Heavy Duty Membrane.

Measure the vertical wall surface to be covered and then cut to size using a t-square. Allow membrane strips to lie of a flat surface and relax. Using a chalk line, mark grade level and positioning lines. Start at the corner of the foundation, and install the membrane from top to bottom. Peel back the release liner slowly as you move down the wall. Apply pressure to the outside of the installed membrane to ensure adhesion to the surface. Before installing the next strip, remove corner release liner, and then overlap following the guidelines on the sheet.

#### STEP 5

##### Seal the membrane's edges.

To ensure that the system is fully watertight, use MS-100 Flexible Sealant to seal the membrane edges, footing, and corners. Vertical overlapping seams do not need to be caulked unless required.

#### FOR BEST RESULTS

Apply membrane only to clean, smooth, dry, dust-free and frost-free surfaces. Apply underlayment only in fair weather when ambient and substrate temperatures exceed 5°C. DO NOT LEAVE MEMBRANE EXPOSED TO SUNLIGHT. Maximum exposure time is 21 days. All terminations and protrusions, such as pipes, should be sealed with Black Jack MS-100 Flexible Sealant. The use of termination bars or counter flashings when membrane is terminated on a vertical surface is required.

#### HANDLING AND DISPOSAL

Waste from this product is not defined as hazardous. Dispose of waste in accordance with applicable Federal, State and Local Regulations.

#### HEALTH & SAFETY

Read before use. Refer to MSDS for additional information.

#### CAUTION

May cause slight irritation. Contains: Asphalt CAS #8052-42-4, Petroleum Oil CAS #64741-88-4, Styrene Butadiene Polymer CAS #9003-55-8, Proprietary Ingredient, Polymer Film. Repeated skin contact with rubberized asphalt may result in slight irritation. Prolonged contact with petroleum oil in rubberized asphalt may increase risk of skin cancer. Avoid prolonged or repeated contact with skin. Eye contact with residue on hands may cause irritation.

**CALIF. PROP. 65 • WARNING:** This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



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