

# Technical Data Sheet

## RamShield 60

Self-Adhering Heavy-Duty Below-Grade Waterproofing Membrane

### FEATURES

- Waterproof
- Self-Sealing
- Tough Coated Woven Film
- Flexible
- Consistent Thickness
- Convenient Release Liner
- Self-Adhering

### PRODUCT DATA

**Color:** White

**Adhesive:** Rubberized Asphalt

#### Dimensions:

Roll Size: 12' x 67" or 36' x 67"

Roll Widths: 12' or 36'

Product Thickness: 60 mil or 1.5 mm

#### UV Exposure Limit:

30 days

### SURFACE PREPARATION

Only apply to structurally sound surfaces, which incorporate good building practices, and meet all local code requirements. The area to be covered must be free from rust, grease and oil. The area must also be dry as residual moisture will interfere with proper adhesion.

Thoroughly clean the area removing all dust, dirt and debris. When applying over concrete ensure that the concrete has had adequate time to cure, typical seven days depending on ambient conditions. Area must be smooth and free of all surface imperfections. Fill any cracks greater than 1/16."

RamShield 60 is a 60 mil Heavy Duty Self-Adhering Below-Grade Waterproofing Membrane. RamShield 60 features a woven polyethylene membrane coated on both sides with a uniquely engineered waterproofing blend. It provides a self-adhered waterproofing membrane in above and below grade applications such as concrete foundation walls, balconies, tunnels and breezeways.

### INSTALLATION

#### Temperature & Job Site Conditions:

- Apply RamShield 60 only in dry weather and at air and surface temperatures of 40°F (5°C) and above.
- Apply RamShield Adhesive in dry weather above 40°F (5°C).

### PRIMING

Apply RamShield Adhesive by brush or roller at a coverage rate of 250–350 ft<sup>2</sup>/gal (6–8.5 m<sup>2</sup>/L) and allow to dry 15 minutes.

Dry time may be longer in cold temperatures. Re-prime areas if contaminated by dust or left exposed for over 24 hours. If the work area is dusty, apply membrane as soon as the adhesive is dry.

### MEMBRANE INSTALLATION INSTRUCTIONS

#### Flashing:

- All penetrations and drains must be caulked and flashed.
- Flashing should extend a minimum of 6 inches from penetration.
- Follow all applicable construction drawing for transitions from horizontal to vertical surfaces. Once installation is complete use a suitable hand roller to firmly press the RamShield 60 to the substrate. Alternately heavy hand pressure may be used
- All terminations must be sealed with KeeneSeal 100.

#### Vertical Applications:

- It is recommended that RamShield 60 not be installed in lengths greater than 8 ft.
- In installations greater than 8 ft, it is recommended that, an 8 ft section is installed on the lowest point of the surface with a second piece installed to the highest point.

#### Overlaps:

- All side laps must be a minimum of 3 inches.
- All end laps must be a minimum of 5 inches.
- Ensure all end laps are staggered.
- Once installation is complete use a suitable hand roller to firmly press the membrane to the substrate. Alternately heavy hand pressure may be used.
- Note failure to use adequate pressure may cause loss of adhesion.
- All ends that do not terminate at a Ram Shield 60 mil interface must be finished with either a mastic or a sealant.

**Special Instructions:** RamShield 60 mil should NOT come into contact with any of the following materials: uncured coal tar products, EPDM, creosote, or polysulfide sealants. RamShield 60 mil membrane should not be used in:

- Areas permanently exposed to sunlight, weather or traffic.
- Negative side or blindside applications.



## TESTING/PHYSICAL

|   |              |
|---|--------------|
| Tensile Strength<br>ASTM D412             | 390 psi      |
| Tensile Strength ASTM<br>D882             | 6,242 psi    |
| Puncture Resistance<br>ASTM E154          | 331.8 lbs    |
| Water Vapor<br>Permeation ASTM E96        | 0.0152 perms |
| Moisture Absorption<br>ASTM D570-81       | 0.2%         |
| Low Temperature<br>Flexibility ASTM D1970 | -45 °F       |
| Hydrostatic Head<br>ASTM D5385            | 197 ft       |

## MAINTENANCE

RamShield 60 Self-Adhesive Membrane should not require maintenance if installed in accordance with Barrett's specifications and instructions.

## SYSTEM COMPONENTS

### •RamShield Adhesive

- Prepares surface for maximum adhesion in temperatures above 40 °F (5 °C).
- Available in 5-gallon pails

### •KeeneSeal 100

- For sealing terminations, laps, and penetrations.
- Available in 10.3 oz tubes and 20 oz sausages
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### Protect RamShield 60 membrane:

- From sunlight as quickly as possible after installation.

### Safe Handling & Storage:

- RamShield 60 should be protected from exposure to damaging weather conditions, the material should be stored in ambient temperatures between 25°-130° F and must be restored to a minimum of 60° F prior to application.

### Post-Application Inspection & Repair:

- Review all work and check if there are damaged areas or inadequately lapped seams.
- If repair is necessary, patch with RamShield 60 membrane: patch must extend 6 inches in every direction from damaged area. Roll the patch firmly and seal edges with KeeneSeal 100 Sealant.
- Only repair when membrane is dry.
- If flood test is required, wait 24 hours after installation.

### Foundation Wall Detailing:

- Form a 1 inch fillet of KeeneSeal 100 or RamMastic in the inside corner, extend the fillet 2 inches inches, with more KeeneSeal 100 or RamMastic, onto the wall and footing.
- Allow KeeneSeal 100 or RamMastic to cure.
- Adhere a 12 inch wide strip of RamShield 60 over the center of the fillet onto the wall and footing.
- Apply RamShield 60 down wall, onto horizontal surface of the footing, terminating at the outside corner of the footing.
- Apply a bead of KeeneSeal 100 Sealant on all terminations.

## TERMINATION RECOMMENDATIONS

- Press membrane firmly at all terminations with a hardwood tool or hard roller.
- Seal termination edges by applying KeeneSeal 100 Sealant, centered on the edge of the termination, with caulking gun and/or trowel.
- Apply KeeneSeal 100 Sealant 1/8 inch thick x 2 inches wide.

### Termination with Optional Termination Bar:

- Recommended for terminations on CMU foundations and below grade installations.
- Use stainless steel or aluminum termination bar.
- Align bar with top of membrane and fasten 8 inches O.C. to ensure continuous compression.
- Separate adjoining bars by 1/4 in. (6 mm).
- Seal top of Termination Bar and fastener heads with KeeneSeal 100 Sealant.

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