



Premium Building Products
That Protect

1. Product Name

Rainproof 60 Plus - 180 Day High Performance Roof Underlayment

Primers & Accessories

- No. 80 Primer
- No. 100 Primer
- JS160H Mastic

2. Manufacturer

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3. Product Description

BASIC USE

Rainproof 60 Plus - 180 Day High Performance Roof Underlayment is a 60 mil (1.5 mm) thick, peel-and-stick, SBS modified, rubberized asphalt sheet waterproofing underlayment. It can be installed on any exterior grade solid sheathing suitable for roof decking down to a 2:12 roof pitch.

COMPOSITION & MATERIALS

Rainproof 60 Plus is internally reinforced with a strong, nonwoven polyester fabric. It has a heavy duty white reflective topping that reduces heat buildup on the roof deck and improves footing safety while providing 180 days of UV protection. The bottom of the sheet has a removable release film for ease of application. A removable 2 1/2" (64 mm) zip strip on the top edge of the release film allows the installer to align the overlaps, position the sheet and even remove or reposition the membrane, in case of error, without struggling with the entire peel-and-stick adhesive backing.

ACCESSORY MATERIALS

- No. 80 Primer is an asphalt based primer suitable for use on all horizontal applications above 40 degrees F (4 degrees C)
- No. 100 Primer is a high-tack SBS rubber base primer. It is used on all vertical surfaces before application of the membrane



Commercial application

and on all surfaces with temperatures between 25 and 40 degrees F (-4 and 4 degrees C)

- JS160H Mastic is a rubberized blend of bituminous and synthetic resins used for sealing detail cuts and membrane terminations

PACKAGING

Rainproof 60 Plus is available in 36" x 50' (914 mm x 15.2 m) rolls. See Table 1 for primer and mastic packaging information.

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM D146 Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing
- ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension
- ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheet

APPROVALS

Rainproof 60 Plus meets or exceeds the following:

- ICBO Evaluation Report Services - Report #4252
- SBCCI Report #94119
- Palm Beach County - UC #93-19
- Dade County - Acceptance #94-0714.01

Copies of individual test results are available upon request.

PHYSICAL PROPERTIES

- Color - White top, black bottom
- Thickness - 60 mil (1.5 mm) ± 5
- Tensile strength (ASTM D882) - 1400 psi (9646 kPa)
- Pliability (ASTM D146) - Pass

5. Installation

STORAGE & HANDLING

Rainproof 60 Plus should be stored in a dry, well-ventilated area out of direct sunlight. Storage temperatures must remain between 50 and 90 degrees F (10 and 32 degrees C). Do not double-stack pallets or store rolls on end. Do not remove product from box until ready to use.

PREPARATORY WORK

Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Verify that site conditions are acceptable for installation. Do not proceed with installation until unacceptable conditions are corrected.

Surfaces should be clean, dry, free of dirt and other foreign matter. The roof deck must be free of gaps and sharp edges prior to membrane application.

The deck should be clean and dry and the surface should resemble new plywood. If the deck cannot be cleaned to a new plywood

TABLE 1 PRODUCT PACKAGING (PRIMER AND MASTIC)

	No. 100 Primer	No. 80 Primer	JS160H Mastic
36 10.5 oz tubes, lb (kg)	-	-	41 (18.6)
1 gallon can, lb (kg)	38 (17.2)	38 (17.2)	55 (25)
5 gallon pail, lb (kg)	46 (21)	46 (21)	68 (31)
55 gallon drum, lb (kg)	485 (220)	485 (220)	-

surface, if it is damp or if temperatures are below 40 degrees F (4 degrees C), apply Protecto Wrap No. 80 Primer prior to application of membrane.

APPLICATION

Priming

The application surface must be cleaned using a broom, vacuum or an air compressor dispensing clean, dry air so that all dust, loose roofing, etc., is removed.

Do not thin the primer. When not in use, seal open containers to prevent evaporation of the solvents.

Install OSB panels rough side up. A light coating of No. 100 Primer is recommended prior to application of Rainproof 60 Plus. Apply the primer to all surfaces by roller or brush at a rate of 150 - 250 ft²/gal (3.8 - 6.3 m²/L), depending on the porosity of the surface.

Brush or roll out all primer puddles or drips immediately. Prime only as much of the surface as can be covered with the membrane in half a working day. Do not cover wet primer. The primed surface must be protected from dust. Apply membrane when primer is tacky but not wet.

Test the primer using the "Rule of Thumb" method. Press thumb firmly on the primed surface and twist. If the primer feels pliable but does not adhere to thumb, the primed surface is ready for membrane application.

Primed areas not covered within 8 hours must be reprimed. If an area must be reprimed, do not remove existing primer, but be certain the area is clean and dry. The surface must be free of dust, dirt and moisture. Reprime and again allow the primed area to become tacky prior to applying the membrane.

Flashing

Nail all metal flashings along and directly on top of the sheathing.

Membrane Application Methods

There are several recommended installation techniques for applying Rainproof 60 Plus. One procedure is to roll or kick the membrane

out across the deck with the white side up and the release film facing down. Position the roll in the desired location by sliding the membrane over the deck, then pull the material tight from each end.

Remove the 2 1/2" (64 mm) zip strip release film and align and position the sheet. Once positioned along the eave, or aligned along the overlap of the preceding roll, lift one end of the membrane and remove the remaining release liner, pulling it to one side. Place the end of the membrane onto the deck and smooth the exposed adhesive side into place.

One worker should remove the remaining release film by pulling it out from under the membrane, low to the deck, while another worker rolls or brooms the sheet flat to ensure full adhesion to the deck and to minimize entrapping air beneath the substrate. At the end laps, apply a 1/2" (12.7 mm) bead of JS160H Mastic and smooth down onto the membrane.

Rainproof 60 Plus can be installed horizontally from the low point of the roof deck in a shingling manner or vertically from the eave. Vertical application, or strapping of the roof with Rainproof 60 Plus, is acceptable and may assist in the installation of the waterproofing membrane on high pitch roofs and on high elevations. This procedure can also help eliminate oil canning in metal roof panels. All end laps must be applied in a manner so as to shed water down the slope when applying Rainproof 60 Plus vertically.

Another accepted procedure is to pull off 12" - 24" (305 - 610 mm) of the full width of the release film and align the roll into the desired position. Press the exposed adhesive bottom firmly onto the roof deck. Begin pulling off the release liner while walking backwards. The roll will follow across the deck as the release film is removed.

To ensure full adhesion to the deck and to minimize entrapping air beneath the substrate, the membrane should be rolled or broomed as the bottom adhesive comes into contact with the deck. Again, at all end laps, apply a 1/2" (12.7 mm) bead of JS160H Mastic and smooth

down onto the membrane.

Rainproof 60 Plus should be trimmed flush to the outer edge of all flashing metal. Roll the membrane firmly on top of all flashing metal to gain maximum surface contact to all edges of the roof. If the membrane is damaged or requires repair, clean the area and lightly prime the membrane with No. 80 Primer at least 6" (152 mm) beyond the damaged area. Cut a membrane patch and roll firmly over the affected area. Apply a troweled bead of JS160H Mastic to the edges of the patch.

Laps

The membrane is provided with a factory 2" (51 mm) overlap on one edge of the roll (top side). Be sure to remove the zip-strip release film from the factory overlap edge for proper bonding between adjacent sheets. End laps, splices and detail cuts should be overlapped 6" (152 mm) minimum. All laps should be firmly pressed or rolled to ensure a positive seal. End laps, splices and detail cuts should be sealed by applying a 1/2" (12.7 mm) bead of JS160H Mastic.

Valleys

Using a minimum 18" (457 mm) roll of Rainproof 60 Plus, center and apply it down the full length of the valley. When using non-perforated or roll valley metal, secure it to the 18" (457 mm) membrane per code.

Overlap the field Rainproof 60 Plus over the valley metal or cut the material to the center line of the valley. When using preformed valley metal, place it over the valley underlayment and secure it following the roofing manufacturer's instructions.

Stacks

Stacks and openings in the roof should be detailed in accordance with local building codes and the Tile Roofing Institute guidelines.

Fasteners

Nails or screws can be used to fasten the roof tiles, shingles or metal roof system through the membrane. Rainproof 60 Plus is self-sealing around fasteners and is fully self-adhering to the roof deck. Fasteners are not required to hold the membrane in place.

PRECAUTIONS

- Rainproof 60 Plus should not be left exposed for more than 25 weeks
- Tile and slate should not be stacked higher than 8 pieces. The first 2 pieces should be placed in the opposite direction of the roof slope. When loading above a 6:12 pitch, wooden braces are required to prevent tile slippage
- Protecto Wrap solvent-based primers/mas-



tic are flammable. Avoid exposure to open flames, sparks, etc. Use only in areas with adequate ventilation. Refer to MSDS for additional information and warnings

6. Availability & Cost

AVAILABILITY

Rainproof 60 Plus is manufactured in Denver, CO, and is available worldwide through a network of Protecto Wrap distributors. For detailed product information or to find a local representative or distributor, contact the Protecto Wrap Co.

COST

Rainproof 60 Plus is competitively priced. Contact a local representative or the corporate office for information.

7. Warranty

Protecto Wrap Co. expressly warrants, subject to the Exclusion Of Warranties provision, that its products shall be fit for the ordinary purposes for which such products are intended for a period of 10 years. Contact the manufacturer for complete warranty details.

8. Maintenance

None required, if installed in accordance with manufacturer's recommendations.

9. Technical Services

Complete technical assistance and information are available from Protecto Wrap field representatives and distributors or by contacting the manufacturer.

10. Filing Systems

- MANU-SPEC®
- Additional product information is available from the manufacturer.