



Premium Building Products  
That Protect

Rainproof 40 High Performance Roof Underlayment™  
Roofing underlayment

TECHNICAL DATA

Properties	Test Method	Test Results
<b>Surface Color</b>		<b>Mottled White</b>
<b>Thickness Requirement: 40 mils</b>	<b>ASTM D 5147</b>	<b>49 mils</b>
<b>Maximum Load</b> Requirement: ≥ 25 lb/in-width	<b>ASTM D 2523/ ASTM D 1970</b>	<b>MD 61 CD 35</b>
<b>Elongation at Break</b> Requirement: ≥ 10%	<b>ASTM D 2523/ ASTM D 1970</b>	<b>MD 45 CD 90</b>
<b>Adhesion to Plywood @ 40°F</b> Requirement: ≥ 2.0 lb/ft-width	<b>ASTM D 2523/ ASTM D 1970</b>	<b>13.7</b>
<b>Adhesion to Plywood @ 73°F</b> Requirement: ≥ 12.0 lb/ft-width	<b>ASTM D 903/ ASTM D 1970</b>	<b>26.7</b>
<b>Thermal Stability</b> Requirement: ≤ 0.1 in.	<b>ASTM D 1204/ ASTM D 1970</b>	<b>0.0</b>
<b>Low Temperature Stability</b> (Pass/Fail)	<b>ASTM D 1970</b>	<b>Pass</b> <b>No visible signs of cracking and pass head of water test</b>
<b>Tear Strength</b> Requirement: ≥ 20 lbf	<b>ASTM D 4073/ ASTM D 1970</b>	<b>MD 100 CD 70</b>
<b>Moisture Vapor Permeance</b> Requirement: ≤ 0.1 US Perms	<b>ASTM E 96 Procedure BW</b>	<b>0.05</b>
<b>Self-Sealability around nail</b> Requirement: Pass/Fail	<b>ASTM D 1970/ ASTM D 7349 Protocol 4 (mod)</b>	<b>Pass</b> <b>No water in the bottom of the can, or underside of substrate, on fastener shank, or between product and substrate</b>
<b>Self Sealability of side seam lap</b> Requirement: Pass/Fail	<b>ASTM D 1970/ ASTM D 7349 Protocol 4 (mod)</b>	<b>Pass</b> <b>No water in the bottom of pan, or between the plywood and the unadhered upper piece</b>
<b>Physical Requirement- Other</b>		
<b>Unrolling (Pass/Fail)</b> Requirement: Visual inspection in the unrolled position	<b>ASTM D 5636/ ASTM D 5147/ ASTM D 1970</b>	<b>Pass</b> <b>shall not crack nor stick to cause tearing or other damage</b>
<b>Puncture Resistance</b>	<b>ASTM E 154</b>	<b>&gt;150 psi</b>
<b>Accelerated Weathering Outdoor Exposure</b>	<b>ASTM D 1970</b>	<b>180 Days</b>
<b>Accelerated Weathering Maximum Load Strain -</b> Requirement ≥ 25 lbs./in. width	<b>ASTM D 2523/ ASTM D 1970</b>	<b>MD 64 CD 34</b>
<b>Accelerated Weathering Elongation at Break -</b> Requirement ≥ 10 %	<b>ASTM D 2523/ ASTM D 1970</b>	<b>MD 32 % CD 66 %</b>
<b>Accelerated Weathering Low Temperature Flexibility</b> Visual Inspection Self Sealability (head of water) Flexed Specimen	<b>ASTM D 1970</b>	<b>Pass</b> <b>no visual signs of cracking and pass head of water test.</b> <b>MD- Pass</b> <b>CD - Pass</b>
<b>Installation Temperature</b>	-	<b>40°F to 120°F (4°C to 48°C)</b>
<b>In-Service Temperature</b>	-	<b>-45°F to 250°F (-42°C to 121°C)</b>

PACKAGING

36" x 67' roll (201 SF/Roll)

## DESCRIPTION

**Rainproof 40 High Performance Roof Underlayment™** is a cold applied self-adhering SBS modified, rubberized asphalt sheet waterproofing underlayment. **Rainproof 40** is internally reinforced with a strong non-woven polyester fabric. The membrane has a white reflective fabric topping.

## FEATURES

- 6 month exposure rating
- FL Product Approval # 17155
- FL Product Approval # 41542 - Approved for use in High Velocity Hurricane Zones
- Fully self adhered roofing underlayment system
- 2½" zip strip release liner for ease of edge overlap adhesion
- Durable White reflective topping for added footing safety and heat reduction
- Seals around properly installed fasteners
- Can be installed Horizontally or Vertically (as code allows)
- Can be installed on roof pitches down to 2"/12" (For lower slopes, contact your Protecto Wrap Representative.)

## USES

Used as a complete waterproof roofing underlayment on new and retro-fit\* roofs under most roof coverings. Can be used at low slope areas, Hip, Ridge, Valleys, Rake edges, Confined Rake edges, around skylights and chimneys. Rainproof-40™ may be used as an underlayment to which concrete or clay roof tiles may be adhered to. Tile installation should be based on published tile manufacturer installation guidelines.

## LIMITATIONS

Not recommended for use under high temperature roofing applications (not recommended roofs that exceed 250°F (121°C) operating temperature).

Not recommended for use on roof slopes less than 2"/12" (without approval).

Not recommend for use over granulated surfaces or existing roof coverings.

## SHELF LIFE

**Rainproof 40** maintains optimum initial adhesion to substrates when used within one year from the date of manufacture.

## STORAGE

**Rainproof 40** should be stored in the original, unopened container at ambient temperatures between 40°F to 90°F (5°C to 32°C). Storage area should remain dry and out of direct sunlight. Do not remove materials from original containers until ready for use. Do not double stack pallets. Do not store rolls on end.

## SURFACE PREPARATION

Roof deck surface shall be clean, dry and free of any foreign materials. The roof deck surface shall be free of gaps, sharp edges and protrusions.

\* Note: If deck surface cannot be cleaned to a like new surface or the deck is damp or below 40°F (4°C), primer should be used prior to the application of the membrane. Refer to: Technical Letter Primer Selection for more information.

## APPLICATION

**Rainproof 40** can be installed on any exterior grade solid sheathing normally used for roof decking. Install membrane such that all laps shed water in both vertical and horizontal installations.

Valleys require a minimum 18" wide roll of **Rainproof 40**, centered down the full length of the valley. Install membrane starting at the lowest point of roof slope and work up the slope.

Position the roll into the desired location, roll out the membrane and cut to length as needed.

Align the roll with edge of eave or overlap of preceding roll, pull membrane tight, start by removing a portion of the 2½" zip strip release liner and adhere to roof deck (reposition as needed prior to removing the remaining release liner).

Lift the opposing end of the membrane and remove or strip the release liner, pulling it to one side, keep membrane aligned and tight, adhere membrane to the roof deck while another person brooms the sheet flat.

Edge laps are 2" minimum and end laps are 6" minimum. All laps should be firmly pressed or rolled to ensure a positive seal.

\* Additional methods and details can be found at [www.protectowrap.com](http://www.protectowrap.com).

#### **CLEAN UP**

Dispose of waste in accordance to local requirements. Control worksite so that boxes and release liner do not present a hazard. Packaging materials and release liner can be recycled.

#### **CAUTION**

**Rainproof 40** should not come into contact with solvent based products, polysulfide's, plasticized PVC roofing materials or high concentrations of resins (pitch).

**Rainproof 40** incorporates a slip resistant surface; however, Protecto Wrap Company recommends the use of appropriate fall protection when installing roof underlayments.

#### **LIMITED WARRANTY**

This product is covered by the Protecto Wrap Standard 10 Year Limited Warranty.

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