

WATERPROOFING

Pre-Kleened™ EPDM Flexible Flashing

Description

Pre-Kleened EPDM is a 45-mil-thick, non-reinforced flexible flashing membrane made of ethylene-propylene-diene monomer rubber. Pre-Kleened EPDM is provided in 100' rolls slit to various widths and has talc washed from surfaces during production to facilitate field handling and installation.

Pre-Kleened EPDM is primarily used as a through-wall flashing in masonry wall and cavity wall construction. The product is also used in challenging air/vapor barrier transition details, such as curtain wall and wall-roof connections. Pre-Kleened EPDM is well-suited for through-wall flashing and sub-assembly tie-ins because it can be built into an assembly, with the installer leaving a durable, loose flap for tie-in to another assembly as construction progresses.

Features and Benefits

- Suitable for permanent exposure to UV
- Product will not stain brickwork
- Resistant to tear and puncture
- No installation temperature restriction
- High elasticity accommodates building movement
- Economical alternative to copper and stainless steel
- Unlike PVC, will not embrittle due to plasticizer migration
- Product and accessories for flashing, splices, corners and terminations provided by same manufacturer

Installation

For cavity wall through-wall flashing applications, membrane shall extend at least 8" onto back-up wall, with horizontal run flat or preferably sloped to the exterior. Membrane shall not be installed in any application so that it ponds or traps water. Pre-Kleened EPDM can be fully adhered to the substrate, or left loose, except at terminations and splices. A loose system functions as a watershed only. A fully adhered system functions as an air and vapor barrier and a watershed. For installation of a fully adhered system, surfaces shall be clean dry and smooth and free of voids, mortar droppings, debris, laitance and form release agents. Pre-Kleened EPDM can be fully adhered to the substrate with solvent-based Sure-Seal® 90-8-30A Bonding Adhesive, Carlisle Low-VOC Bonding Adhesive, Carlisle

HP-250 Primer, or Carlisle Low VOC Primer. Apply bonding adhesive to both the membrane bonding surface and to the substrate. For any installation, sharp protrusions behind the membrane shall be made flush. Protrusions such as anchor bolts and reinforcing bar shall be brought through the membrane by making an "X" cut with a utility knife through the membrane, aligned with the protrusion. Make a watertight seal around the penetration with a generous bead of Sure-Seal Lap Sealant. Splices between adjacent pieces of Pre-Kleened EPDM shall be made with 3" Sure-Seal SecurTAPE™. Align materials in splice so that SecurTAPE protrudes 1/16" to 1/4" beyond the edge of the splice. Prepare EPDM surfaces in splice with Sure-Seal EP-95 Splicing Cement, HP-250 Primer or Carlisle Low-VOC Primer. For inside or outside corners, cut and fit the membrane around the condition and patch pinhole area with Sure-Seal Pressure-Sensitive Inside/Outside Corners as shown in CCW's detail drawings.

There are three different options for termination of Pre-Kleened EPDM on the backup wall in cavity wall through-wall flashing applications:

Option 1: Bonded, Surface-Mounted Termination

Prepare substrate and the surface of EPDM at the termination area with Sure-Seal EP-95 Splicing Cement, HP-250 Primer or Carlisle Low-VOC Primer. Bond termination with 3" SecurTAPE, positioned so that it protrudes beyond the edge of the membrane 1/16" to 1/4". Seal the termination with a finish bead of Sure-Seal Lap Sealant.

Option 2: Fastened, Surface-Mounted Termination

Apply a continuous bead of Sure-Seal Water Cut Off Mastic to substrate, and fasten membrane in place with Sure-Seal Termination Bar. Mastic must be held in compression between membrane and substrate termination bar. Membrane shall protrude from 1/16" to 1/4" above the termination bar. Seal the termination with a finish bead of Sure-Seal Lap Sealant.

Option 3: Cast-In-Place Termination

Build Pre-Kleened EPDM membrane into the masonry wall, with the membrane tucked far enough into the mortar bed to hold in place during cure.

Before installation of bonding adhesive, splicing tape, primer, splicing cement or lap sealant, clean the surface of soiled or weathered EPDM with HP Splice Wipes wet with Weathered Membrane Cleaner. Roll membrane in place firmly with seam roller or similar tool over splices, terminations and bonded areas.

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Limitations

For use above grade only.

Where product is used as an air/vapor barrier, it is not suitable for spanning gaps in excess of ¼" width. These must be filled or bridged with rigid material to provide support.

Installed product shall shed water. Not designed for holding standing water for prolonged water immersion.

Warnings and Hazards

Sure-Seal EP-95 Splicing Cement, Sure-Seal HP-250 Primer, Carlisle Low-VOC Primer, Sure-Seal 90-8-30A Bonding Adhesive and HP Weathered Membrane Cleaner are flammable, solvent-based materials. Refer to the MSDS for important safety and regulatory information.

Storage

Store product and accessories in an area protected from precipitation and direct sunlight. Do not allow AquaBase 120 to freeze. Storage of accessories between 50°F and 90°F will facilitate installation and prolong shelf life. Store solvent-based materials in accordance with federal, state and local regulations.

Packaging

12" x 100', 2 rolls per carton
 18" x 100', 1 roll per carton
 24" x 100', 1 roll per carton
 36" x 100', 1 roll per carton

Accessories

- Sure-Seal EP-95 Splicing Cement: 1-gal cans, 6 per case
- Sure-Seal HP-250 Primer: 1-gal cans, 6 per case. 2.5-gallon pails
- Carlisle Low-VOC Primer: 1-gal cans, 6 per case
- Sure-Seal 90-8-30A Bonding Adhesive: 5-gal pails
- Carlisle Low-VOC Bonding Adhesive: 5-gal pails
- Sure-Seal Lap Sealant: 10.3-fl-oz tubes, 25 per carton
- Sure-Seal SecurTAPE: 3" x 100' rolls, 4 per carton
- Sure-Seal Pressure-Sensitive Inside/Outside Corners: 7" x 9", 20 per carton
- Sure-Seal Water Cut Off Mastic: 10.3-fl-oz tubes, 10 per carton

Typical Properties

Property	Method	Results
Thickness	—	0.045" +/- 10%
Tensile Strength	ASTM D412	1600 psi
Elongation	ASTM D412	480%
Tear Resistance	ASTM D624	200 lb/in Die C
Seam Strength	Modified ASTM D816	Membrane Rupture
Resistance to Heat Aging Properties after 4 weeks @ 240°F	ASTM D573	
Tensile Strength		1,500 psi
Elongation, ultimate		225%
Tear Strength		215 lb/in
Linear Dimensional Change		-0.4%
Ozone Resistance Condition after exposure to 100 pphm ozone in air for 168 h @ 104°F with specimen at 50% strain	ASTM D1149	No Cracks
Resistance to Water Absorption. Change in mass after 7 days @ 158°F	ASTM D741	2.0% max.
Water Vapor Permeance	ASTM E96, Method B	.05 Perm
UV Resistance, Xenon-Arc 7560 kJ/m ² total radiant exposure at 0.70 W/m ² irradiance, 80°C black panel temp.	ASTM D4637 Conditions	No Crack No Crazing

Limited Warranty

Carlisle Coatings & Waterproofing Incorporated (Carlisle) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any Carlisle materials prove to contain manufacturing defects that substantially affect their performance, Carlisle will, at its option, replace the materials or refund its purchase price. This limited warranty is the only warranty extended by Carlisle with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. Carlisle specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever. The dollar value of Carlisle's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the Carlisle material in question.