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SPECIFICATION BULLETIN No. 209

YORK WASCOSEAL®

FLASHING/WATERPROOFING

DESCRIPTION:

A non-reinforced polyvinyl chloride, waterproofed, impermeable sheet, composed of elastomeric substances which have been reduced to a thermoplastic state and formed into a continuous sheet available in the following thicknesses:

Type 20 (.020") weighing approx. 22 ounces per sq. yd.

Type 30 (.030") weighing approx. 33 ounces per sq. yd.

Type 60 (.056") weighing approx. 60 ounces per sq. yd.

Roll Sizes: Type 20, rolls 150'long, 48" and 72" wide. Types 30, rolls 100'long, 48" and 72" wide. Type 60, rolls 50'long, 48" wide. Can be slit to multiple widths.

FEATURES :

York's Wascoseal® membrane is intended for use as a concealed waterproofing membrane on foundation walls and under concrete slabs and is often used as thru-wall flashing. Material will not be physically deformed when stretched at room temperature nor will it tear or rip. It will show no cracking or flaking when bent through 180 degrees over a 1/32" mandrel and then bent at the same point over the same size mandrel in the opposite direction through 360 degrees. The material is suitably stabilized to resist exposure without physical deterioration when tested in accordance with A.S.T.M. standard D-822 for a period of not less than 400 hours. It is resistant to acids, alkalis and caustics. **RECOMMENDED FOR CONCEALED APPLICATIONS ONLY.** Recommended adhesive is York Type R® Cement, Specification Bulletin No. 216. **DO NOT USE ASPHALT BASED MASTICS.**

MODEL SPECIFICATIONS:

Special Requirements:

1. Protect all adjacent work from damage by work performed under this section.
2. All materials specified shall be delivered to jobsite bearing manufacturer's name and material identification.

Preparation:

All surfaces to receive waterproofing or flashing shall be smooth, hard, frost-free, thoroughly dry and clean to the satisfaction of the contractor. Membrane shall be applied as work progresses and in no case shall the membrane be left exposed longer than necessary. Metal surfaces to receive membrane must be free from scale, rust, grease or oil. Use a fast evaporating solvent to clean metal surfaces.

Materials:

For membrane waterproofing and flashing, material shall be York Wascoseal ®(specify one, i.e., Type 20) as manufactured by York Manufacturing, Inc., Sanford, Maine.

Applications:

Horizontal Masonry Surfaces:

Flashing shall be laid in a slurry of fresh mortar and topped with a fresh full bed of mortar. Flashing shall be carried through the wall as detailed and left exposed at the exterior for inspections only. After inspection, flashing shall be cut flush with the exterior masonry.

Vertical Masonry Surfaces:

Surfaces receiving the flashing shall be sufficiently spotted with Type R® Cement to hold it in place until masonry is set. Secure in back wall mortar joint or reglet as detailed.

Foundation Sill Flashing:

The flashing for foundation sills shall be laid in a slurry of fresh mortar and topped with a fresh full bed of mortar. Flashing shall be left flush with the exterior face of the masonry and turned up on the inside not less than 2" or be carried upward across the cavity a minimum of 6". Flashing will then be secured in the back wall in a reglet or mortar joint. Where sill and column meet, flashing shall be brought a minimum of 10" up the column and be secured with Type R® Cement.

Cavity Wall Flashing:

Flashing shall be laid in a slurry of fresh mortar and topped with a fresh full slurry of mortar. Flashing shall be left flush with the exterior face of the masonry wall and carried through the wall, upward across the cavity a minimum of 6" and secured in the back wall mortar joint or reglet.

Spandrel Flashing:

Spandrel flashing shall start from the outside toe of the shelf angle, go up the face of the beam and then through the wall turning up on the inside not less than 2".

Parapet or Copings:

Flashing for parapets or copings shall be laid in a slurry of fresh mortar and topped with a fresh full bed of mortar. Flashing shall come flush with the exterior and interior faces of the masonry wall.

Head and Sill Flashing:

The flashing shall start flush with the outside of the wall or lintel angle, then carried through or up the wall as indicated. Flashing shall extend 6" beyond each side of the opening and be turned up at the sides forming a pan. All corners shall be folded, not cut.

Other Areas:

All membrane flashing at other locations shall be installed in accordance with manufacturer's recommendations.

Joining of Material:

Joint shall be made by lapping a minimum of 6" and coating the contacting surfaces with Type R® Cement.

Weep Holes:

All flashing installed through masonry shall be provided with proper drainage to outside. Weep holes shall be provided in the head joint, the first course immediately above the flashing. Weep holes shall be kept free of mortar droppings.

Mortar Deflection:

A mortar deflection device should be installed at all flashing locations to ensure proper weepage.

INSPECTION:

In each area where membrane flashing has been installed, a minimum of three locations in the wall joint above the flashing shall be left clean of mortar for water to be forced into the opening to determine if flashing has been installed properly and weep holes provided in accordance with these specifications. All flashing that has been left exposed to the exterior should be trimmed flush with the exterior masonry at this time.

Foundation Damp-proofing:

Install material using the greatest width obtainable and lengths not to exceed 20'. The material shall be applied vertically from the top down and be laid in a full trowel coat of York's Type R® Cement using a notched trowel with a cement build-up of not less than 1/16", which is equivalent to approximately 100 square feet to the gallon. Lap membrane 6" at all joints. The surface of the membrane shall be rolled in with a rubber hand roller forcing all air out causing cement to protrude around all seams, eliminating all air entrapment. If wrinkles appear and are not gone in 24 hours, re-rolling will become necessary. Damp-proofing material shall be applied from exterior finish grade down to bottom of foundation wall and tied in with waterproofing at footing. All conduits passing through wall should be sealed with membrane and Type R® Cement. Prior to back-filling and after 48 hours has elapsed and damp-proofing has been inspected and approved, protect the membrane from damage by applying hard-board sheets or 1" polystyrene boards the full height of the wall, spotting sheets with Type R® Cement to prevent movement during back-filling operation.

Slab Damp-proofing:

Install material using the greatest width obtainable and lengths not to exceed 20'. The material shall be laid in a full trowel coat of Type R® Cement, using a notched trowel with a cement build-up of not less than 1/16", which is equivalent to approximately 100 square feet to the gallon. Joints shall be butt-ended. Apply pressure using 50-100 lb. sectional roller forcing cement to protrude at all joints. Apply Type R® Cement with the same notched trowel over each joint and cover joints with a minimum of 6" wide strips of Wascoseal® again, apply pressure forcing the cement to protrude at all edges. Turn up material at sides and around all columns and vertical protrusions as required.

Damp-proofing Under Slab:

On grout surfaces or tamped earth and prior to pouring slab, lay on substrate the widest width and lengths obtainable lapping a minimum of 6" on sides and 10" on ends. Seal laps with a full trowel coat of Type R® Cement and apply pressure until a bead of cement appears at edges. Turn up on conduits, columns or any vertical protrusions a minimum of 4". Where two vapor barriers meet, cement thoroughly to make a watertight joint. Protect membrane after installation against damage by other trades prior to pouring.

PHYSICAL CHARACTERISTICS ****

Color	Black	
Specific Gravity	1.28-1.33	ASTM D-792
Tensile Strength	2200 to 2800 Psi	ASTM D-882 & 412
Elongation (%)	250	ASTM D-882 & 412
Graves Die Tear	450 lbs./inch	ASTM D-1004
Elmendorf Tear	150 (gram/mil)	ASTM D-689
Masland SPI Cold Crack	-10° + -5° F.	ASTM D-1543
Cold Flex	No cracks at 20°F. 1/32" Mandrel	
Weatherometer (5,000 hrs.)	No change	ASTM D-822
Hardness Shore A	80	ASTM D-676
Brittleness Temp.	-57° C.	ASTM D-746
Volatile Loss (24 hours. 70° C.)	1.05%	ASTM D-1203
Water Vapor Transmission (Grams/100 sq. inch)	0.24	240 hrs. 212° F
Staining	None	240 hrs. 212° F.

****WASCOSEAL® IS MANUFACTURED FROM REPROCESSED PVC AND THEREFORE ALL TEST DATA ON PHYSICAL CHARACTERISTICS MUST BE CONSIDERED "BATCH SPECIFIC". ALL ASTM TEST RESULTS SHOULD BE TREATED AS AVERAGES RATHER THAN MINIMUMS.

NOTE: YORK MANUFACTURING, INC. ENDORSES THE USE OF PVC AS A THRU-WALL FLASHING ONLY WHEN THE PLANNED LIFE EXPECTANCY OF THE PROJECT IS LESS THAN 10 YEARS.