

POLYGUARD NW-75 MEMBRANE

FOR WATERPROOFING JOINTS AND CRACKS AND FOR AREA REPAIRS SPECIFICATION GUIDE

PART 1 – GENERAL

The waterproofing membrane shall be comprised of a rubberized asphalt waterproofing element and a nonwoven pavement reinforcing grade polypropylene geotextile laminated to the outer surface.

PROPERTIES	MARV VALUES	TEST METHOD
Thickness	65 mils.	ASTM D 1777 (USE ½" PRESSER FOOT)
Strip Tensile Strength	50 lbs./in. width	ASTM D 882
Grab Tensile Strength	160 lbs.	ASTM D 4632
Puncture Resistance	200 lbs.	ASTM E 154
Permeance - Perms	0.05 max	ASTM E 96 (Method B)
Elongation at break of fabric	60%	ASTM D 4632
Pliability at low temperatures (-15°F)	No cracks in fabric or rubberized asphalt	ASTM D 146

The waterproofing membrane shall be placed on joints and cracks of pavement and areas needing repair or reinforcement; designated treatment follows:

- 1) Placement of membrane will be done only when the temperature is above 45°F and the pavement surfaces are dry and free of any debris.
- 2) Surface shall be primed as follows:
 - All concrete surface, and all milled surfaces: Primer must be used.
 - Old asphalt surfaces (not milled): Primer is not needed if temperature is >70°F and rising.
 - New asphalt surfaces: Primer is not needed unless temperature is too cool to obtain a good bond between membrane and pavement. This can occur between 40° and 50°F.

The liquid adhesive shall be placed on the surface, at a minimum rate of 400 square feet per gallon (250 square feet per gallon on milled surfaces), 1" wider than the membrane and shall be allowed to dry until tack free before applying the membrane.
- 3) The waterproofing membrane shall be placed in such a manner as to leave no voids between the membrane and the pavement at faulted joints.
- 4) The membrane shall be installed in widths of 12" minimum and shall be centered over the joint or crack with 1" tolerance. Transverse joints and cracks shall be sealed first starting at the outside edge of the pavement and extending the full length of the joint.
- 5) The outside edge of the joint shall be sealed after the transverse joint. All laps shall be made in such a manner that the paver does not encounter the exposed edge of the lap first.
- 6) Transverse membranes shall be extended 4" to 6" beyond each pavement edge. Cracks which connect with transverse joints shall be sealed first with a minimum of 2 ½" lap at the intersection with the joints. Laps will be permitted in both transverse and longitudinal membranes with a minimum overlap of 2 ½".
- 7) For area repairs or reinforcement, membrane should be extend a minimum of 6" beyond the point where cracking has stopped.
- 8) The membrane shall be installed straight and wrinkle free with no curled or uplifted edges. Any wrinkles over 3/8" in width shall be slit and folded down.
- 9) On horizontal surfaces apply membrane from low to high pitch to provide maximum drainage efficiency.
- 10) Pressure roll membrane with a rubber tired roller, or with a hand roller with a soft surface weighing at least 75 lbs., to improve adhesion.
- 11) Membrane shall not be left exposed to ultra-violet rays for an extended period (over 30 days) without protective coating.
- 12) If necessary, traffic may be allowed to use a section after placement of a membrane and prior to placing the paving. In the event the Inspector determines the membrane is being damaged, the section may be closed until the overlay is placed.
- 13) A minimum overlay of 1½" compacted over *NW-75 Membrane* is recommended. Asphalt tack coat is applied prior to the overlay.
- 14) The use of vibratory rollers over *Polyguard* membrane is not recommended.

**PART 2
MANUFACTURER:**

Products specified for waterproofing of joint cracks and area repairs are manufactured by *Polyguard Products, Inc.*, PO Box 755 Ennis, Texas 75120-0755, phone: 214-515-5000. Website: www.PolyguardProducts.com

- *NW-75 Membrane*

END OF SECTION