

# 665 MEMBRANE

## FOR WATERPROOFING JOINTS AND CRACKS SPECIFICATION GUIDE

### PART 1 – GENERAL

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

PROPERTIES	TEST METHOD	MARV VALUES
Thickness	ASTM D 1777 (1/2" Presser foot)	65 mils.
Strip Tensile Strength	ASTM D 882	85 lbs.
Grab Tensile Strength	ASTM D 4632	200 lbs.
Puncture Resistance	ASTM E 154	299 lbs.
Permeance - Perms	ASTM E 96 (Method B)	0.05 max
Elongation at break of fabric	ASTM D 4632	20%
Pliability at low temperatures ( -15°F)	ASTM D 146 (Modified)	No cracks in fabric or rubberized asphalt

### PART 2 – PRODUCTS

#### MANUFACTURER

Products specified for waterproofing joints and cracks are manufactured by *Polyguard Products, Inc.*, PO Box 755 Ennis, Texas 75120-0755, phone: 214-515-5000. Website: [www.PolyguardProducts.com](http://www.PolyguardProducts.com)

- 665 Membrane

### PART 3 – EXECUTION

The waterproofing membrane shall be placed on joints and cracks of pavement; 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 according to manufacturer's recommendations prior to placement of the membranes. 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 3" lap at the intersection with the joints. Laps will be permitted in both transverse and longitudinal membranes with a minimum overlap of 3".
- 7) 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.
- 8) On horizontal surfaces apply membrane from low to high pitch to provide maximum drainage efficiency.
- 9) Pressure roll membrane to improve adhesion.
- 10) Membrane shall not be left exposed to ultra-violet rays for an extended period without protective coating.
- 11) 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. Asphalt overlay should not be over 300°F.
- 12) A minimum overlay of 2" over 665 Membrane is recommended. Asphalt tack coat is applied prior to the overlay.

**Limitations:** If a Superpave overlay requiring higher paving temperatures than 300°F is specified, contact *Polyguard* for technical advice. Woven polypropylene backings are subject to high shrinkage at over 300°F.

END OF SECTION