

POLYGUARD 665 MEMBRANE FOR WATERPROOFING JOINTS AND CRACKS SPECIFICATION GUIDE

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.

TYPICAL PROPERTIES	VALUES	TEST METHOD
Thickness	65 mils	
Tensile Strength	90 lbs./in. Width	ASTM D 882 (<i>Method A</i>)
Puncture Resistance	200 lbs.	ASTM E 154
Permeance - Perms	0.1 max	ASTM E 96 (<i>Method B</i>)
Elongation	15%	ASTM D 4632
Pliability at low temperatures (0 °F., -15 °F., -25 °F)*	No cracks in fabric or rubberized asphalt	ASTM D 146 (<i>Modified</i>)
* POLYGUARD 665 is manufactured to the specifications of D.O.T's. Most material shipped meets a -15° specification. However, if an agency has specified a higher or lower pliability specification, the product will be produced with a formulation meeting those requirements.		

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 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".



This Information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.



Polyguard has been ISO 9000 certified since 1996. Current certifications are:
- American Natl. Standards Institute
- Dutch Council for Certification
- Deutscher Akkreditierungs Rat

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- 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.
- 13) The use of vibratory rollers over Polyguard membrane is not recommended.

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