

# PAVEGARD 180

## SELF-BONDING PAVEMENT MEMBRANE

### **DESCRIPTION**

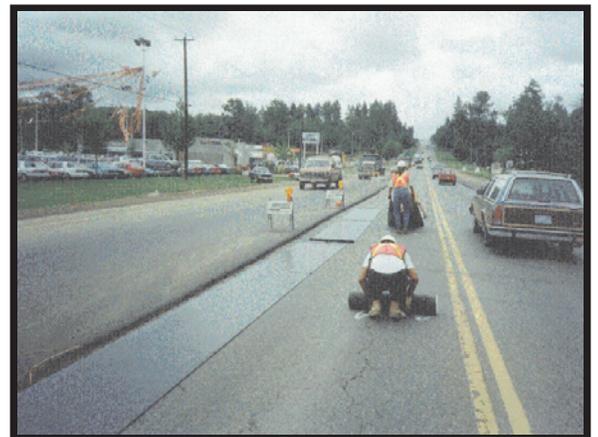
PAVEGARD 180 is a "peel & stick" style self-adhering membrane designed to be used as a reinforcement beneath new pavement overlays on street, highway or parking lot reconstruction projects. PAVEGARD 180 is used to retard reflective cracking and to provide increased load bearing and waterproofing over cracks, repair joints, expansion joints, and alligatored areas. May be installed over distressed areas only, or in full road-width applications. Provides increased fatigue resistance, thus prolonging the useful life of pavement overlays.

PAVEGARD 180 consists of a high-strength, non-woven polyester fabric which is saturated with paving grade asphalt cement, then coated on one side with a self-adhesive rubberized asphalt coating. The upper side of the sheet is sand covered to provide a tack-free surface and the bottom side has a removeable release film. When correctly installed, the membrane will stay in place to permit traffic or paving equipment to travel on it as required, prior to paving. Designed to soften and relax beneath a hot overlay, the membrane will become securely bonded to the old pavement beneath and to the new layer above once compaction is completed.



**WATERPROOFS & RETARDS REFLECTIVE CRACKING.**  
*Keeps water out of the subgrade.*  
**ROADS LAST LONGER.**

**EASY PEEL & STICK INSTALLATION.**  
*Stays in place for traffic movement.*  
**INEXPENSIVE TO INSTALL.**



**LOAD BEARING, ELIMINATES COSTLY EXCAVATION.**  
*Adds tensile strength to pavement.*  
**SAVES MONEY AND DOWN TIME.**

 **PAVEGARD PRODUCTS INC.**  
HIGH-TECH PAVEMENT MEMBRANES

# Pavegard 180 Self-Bonding Pavement Membrane Specification & Installation Guide

## MATERIALS

Materials shall be **PAVEGARD 180** membrane as supplied by Pavegard Products Inc.

Telephone: (604) 888-0777, 1-800-663-0076, Fax: (604) 888-1656.

The material shall be high strength waterproofing membrane made of non-woven polyester fabric which has been presaturated with paving grade asphalt cement then coated on one side with a self-adhesive rubberized S.B.S. asphalt coating complete with a disposable release film. The upper side of the sheet shall be sand-covered to provide a tack-free surface for traffic and equipment.

### THE MEMBRANE SHALL MEET THE FOLLOWING PHYSICAL TEST PARAMETERS:

Roll Length		10 m. (33')
Roll Width		1 m. (40")
Roll Weight		23 kg. (50 LB.) (approx.)
Tensile Strength	ASTM D 5142	16.4 KN/m (93.9 lb/in)
Elongation		40% - 50%
Puncture Strength	ASTM D 4830	62 lb.
Flexing Cycles To Break		> 100,000

## EQUIPMENT

Material Handling Equipment: No special equipment needed for handling the rolls of material. Rolls should be stored standing on end and kept at a moderate temperature prior to use. Do Not Store in Direct Sunlight.

Miscellaneous Equipment: If a primer is specified, brushes, rollers or spray equipment are necessary, otherwise, utility knives and pneumatic rolling equipment are all that are required.

## SURFACE PREPARATION

The surface upon which the material is to be placed should be dry and free of loose material, dust or vegetation. Cracks over 1/2" widths should be filled with a suitable crack filler and excess filler material removed. The surface under the membrane should be reasonably smooth. Some milled surfaces may be acceptable. All severely spalled or otherwise distressed areas must be repaired according to acceptable paving practices. Good engineering judgment should be used. Surface temperature should be a minimum of 10 C° (50° F) and rising, for optimum bonding of membrane prior to paving.

## MATERIAL PLACEMENT

If specified, place primer, allowing time for it to break. If covering small, localized areas, simply unroll the PAVEGARD 180, and pre-cut, then remove the release paper and place over distressed areas and pneumatically roll the membrane. For long runs, unroll the PAVEGARD 180 and cut into workable lengths, centre the sheet over the crack or surface area to be treated. Remove the release film and flip and place the membrane centred over the crack. Dispose the release paper promptly to facilitate clean-up. PAVEGARD 180 should be pneumatically rolled, to insure good contact and adhesion to pavement. Slit and smooth out any wrinkles and bubbles. Allow at least 6" extension of the **PAVEGARD 180** to overlap sound pavement adjoining the patch. All side laps should allow for a 2" lap and end laps to be 4". For all applications, insure all end laps are the direction of paving and place the membrane by starting at the low point working towards the high point to facilitate water run-off. **NOTE** if the **PAVEGARD 180** is left open to traffic and it becomes wet, traffic should be advised that it may become slippery and speeds should be reduced. When the temperature is too low for proper bonding, it is mandatory to preheat the tack-side of the membrane with a propane torch prior to installation of the membrane and locking down the membrane with a pneumatic roller or similar means before the membrane loses its pre-heat. **Do not install the PAVEGARD 180 if rain is forecast prior to paving over the membrane since moisture beneath the membrane may affect the quality of bond when paving takes place.**

## OVERLAY

Asphalt pavement hot mix of a minimum compacted thickness of 37.5 mm ( 1 1/2") can immediately follow the placement of the material. If the membrane has been allowed to get wet, allow to thoroughly dry and check that the bond is secure. Good common sense and proper paving practice should prevail. If rolling cracks occur during compaction, allow overlay to cool slightly before proceeding. "Shoving" of the hot-mix can sometimes occur on membrane resulting in a slight hump or crack at membrane termination. To avoid this, allow overlay to cool a bit more prior to compacting, or use lighter roller first, then follow with heavier one.

## METHOD OF MEASUREMENT

The unit of measurement of **PAVEGARD 180** shall be in sq. ft. or sq. m.

## BASIS OF PAYMENT

Payment shall be made at the contract price per sq. ft. or sq. m. of **PAVEGARD 180** in place. This price shall be full compensation for furnishing all materials including primer, and for all preparation and application of these materials and for all labour, equipment, tools and incidentals necessary to complete the item.