

STRATASEAL® HR **ADHESION TEST GUIDELINES**

INTRODUCTION

Prior to field membrane installation, a manual adhesion test should be performed in certain circumstances (shortened cure time, moisture from the elements, lack of proper vented metal pan deck, etc.) This provides a qualitative check on the adhesion performance of STRATASEAL HR and the substrate. Using this test, the applicator can determine if the substrate is properly prepared, of sound quality, and ready to receive the Hot-Applied Rubberized Asphalt System. Frequent adhesion checks should be performed throughout the application of the membrane to ensure an adequate bond is being maintained. Contact the CETCO Technical Services Department if problems persist after corrective action has been taken.

PROCEDURE

The following are guidelines for a field adhesion test with STRATASEAL HR:

1. Once the concrete is dry and has been properly prepared, apply the appropriate amount of STRATAPRIME SB over a minimum 300mm (12") x 300mm (12") area, and allow to dry.
2. Install a minimum 2.3mm (90 mil) thick layer of STRATASEAL HR over the primed substrate using methods typical to the full membrane installation.
3. Install a minimum 50mm (2") x 400mm (16") strip of STRATABOND 100 reinforcing fabric into the first layer of the STRATASEAL HR while still hot and tacky. Place the reinforcing fabric with a minimum 100mm (4") tail extending out from the hot rubber.
4. Apply a second layer of STRATASEAL HR at a minimum thickness of 3.2mm (125 mils) over the entire 300mm (12") x 300mm (12") area to encapsulate the reinforcement fabric.
5. Allow membrane patch to cool for a minimum 2 hours. Manually pull up on 100mm (4") tail of reinforcement fabric perpendicular to the concrete in a slow, steady manner. Force should not be applied in a fast, sharp jerking motion, evaluate results.
6. Manually pull up on 100mm (4") tail of reinforcement fabric perpendicular to the concrete in a slow, steady manner. Force should not be applied in a fast, sharp jerking motion, evaluate results.

EVALUATION OF RESULTS

Passing Results – A large portion of the first layer of membrane remains adhered to the substrate. Some force needs to be applied in order to pull apart the membrane, or the reinforcement fabric breaks during the pull test. This indicates that STRATASEAL HR has attained an acceptable bond to the substrate, and application of the balance of the membrane can begin.

Adhesive Failure – Membrane pulls away from substrate, revealing moisture/dampness underneath. Concrete dust or laitance may also be present on the underside of the membrane. This mode of failure requires additional drying or substrate preparation and retesting prior to membrane installation.

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FORM: TR_HR_110_AM_EN_202301_V1 Adhesion Test Guidelines



CETCO®

Cohesive Failure