UNIFLEX
Fluid Applied Roofing Systems

TECHNICAL BULLETIN

Adhesion Test Requirements

Prior to application of the coating system, Contractor shall perform adhesion testing over substrates including previously coated and non-coated roof membranes. Contractor shall follow ASTM 4541 for approved field adhesion test methods. Contractor shall allow roof coating to cure for a minimum of 72 hours prior to conducting peel test. Coating adhesion must achieve a minimum of two (2) pounds per lineal inch. Results of less than two (2) pounds per lineal inch shall be reported to Manufacturer to discuss retesting using a primer. Contractor shall perform adhesion testing in areas of existing roofing membrane indicating worn substrates, any change in substrate, areas that show evidence of ponding water conditions or previously coated areas. All adhesion test results shall be recorded and submitted to Manufacturer for additional evaluation.

Adhesion Test Guidelines:

- An adhesion test must be completed over all substrates including previously coated and non- coated roofs prior to installation of roof coating.
- Contact Roof Coating Manufacturer for required warranty compliance procedures.
- Adhesion tests on previously coated substrates are required for all areas including, but are not limited to the following:
- Field of existing roofing:
- Minimum number of tests: Two (2) per 10,000 sq. ft.
- Previously coated areas require Five (5) test areas per 10,000 sq. ft.
- Areas of existing roofing indicating worn substrates require additional testing.
- Any change in existing roofing substrate
- Existing roofing installed in varying phases
- Shaded areas
- Areas indicating ponding water

Uniflex Reserves the right to request additional adhesion testing

Related Links:

Video- Uniflex Adhesion Test

See general instructions on next page

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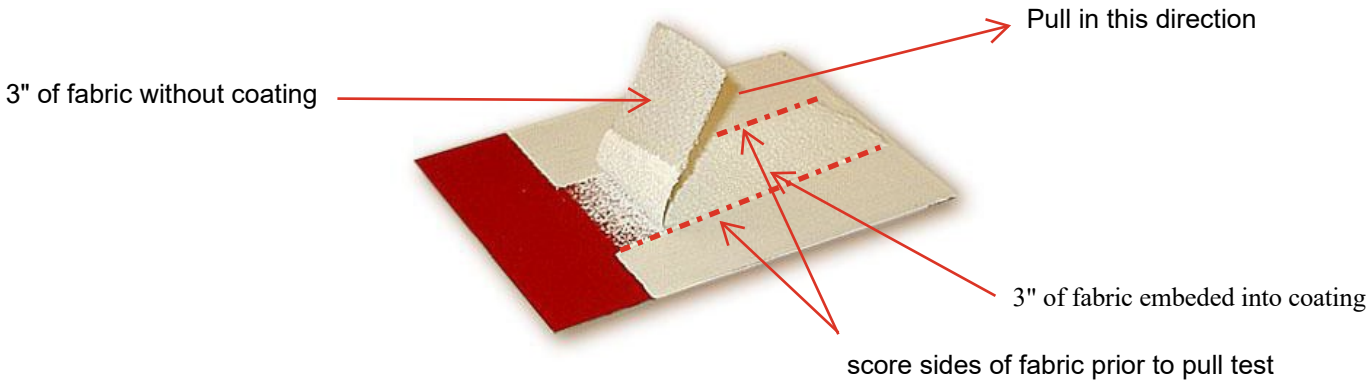
Adhesion Test Instructions



1. Clean an area of the roof surface following the selected specificationguidelines.
   Note: clean substrate in the same manner as you would during project preparation
2. Apply one 20 wet mil coat of the coating product to a properly prepared substrate. Typical area of coating is approximately 6" wide by 6"" long. *If a primer is required, use the primer as the base layer.* Otherwise, conduct a test of each and see which adheres best, as this will determine your system.
   - Using a one (1") inch wide by six (6") inch long strip of fabric, embed into base layer of coating.
   - Immediately embed a 3" section of the fabric into the base layer of coating.
   - Care should be taken not to displace the base layer material during embedment process.
   - Allow for three (3") inches of the uncoated fabric to protrude out of the coating on one end.
   - Apply a second 20 wet mil coat to fully encapsulate the fabric but leave the protruding fabric uncoated.
   - Allow the coating to cure for at least 7 days for acrylic and 3 days for silicone or urethane for basic adhesion test before attempting to verify adhesion.
3. Prior to conducting the pull test, score the sides of the fabric with a razor knife.
4. Using a scale that records lbs., suck as a fish scale gradually pull the fabric *at a 45 degree angle* and observe the lbs. reading: a minimum of 2 lbs. should be achieved.
   - Note – an indicator of poor adhesion - 2 lbs. is not achieved. The coating peels off the roof surface or existing coating with little to no effort. (adhesive failure)
   - Note – an indicator of good adhesion – 2lbs or greater is achieved. There is difficulty in lifting the fabric, or the fabric separates from the new coating (leaving the new coating bonded to the existingcoating). (cohesive failure)