Technical Bulletin

No. 2501

Moisture Survey Requirements for MuleHide Recover and Coating Applications

March 2026

MuleHide requires a moisture survey for ALL coating projects and Single-Ply systems with warranty terms greater than 20-years being installed over an existing roofing system (recover application), where a System (NDL) warranty is being requested to ensure a moisture free substrate. This survey must be submitted with the warranty application for the project and be completed prior to installation of the new roofing system.

A Moisture survey may consist of various types of technology. These include but are not limited to:

- Infrared (IR) Scan
- Nuclear Survey
- Capacitance Survey
- Core sampling

When Core sampling is the survey choice, MuleHide requires the results of the core cuts to be provided on the attached reporting form. Minimum sampling requirements are outlined below:

- On projects under 10,000 sq ft a min of 3 core test per roof area.
  - 10,000-30,000 sq ft a min of 3-5 core tests.
  - 30,000-50,000 sq ft a min of 5-7 core tests.
- **On projects greater than 50,000 sq ft contact MuleHide Technical for number of tests required**.
- In the instance that a full IR scan of the roof is provided, contact MuleHide Technical for number of tests required.
- A minimum of 2 core tests per roof section or level on a project.
- Additional core samples should be taken in the most moisture-prone areas of the roof, such as near drains, scuppers, and in areas that show evidence of ponding water, as well as areas of known leaks (existing or historical).

Recommended steps to perform core sample evaluation for moisture for a recover project candidate.

1. On existing Built-Up (BUR) Roofing systems scrape off gravel or stone which is embedded in the top surface of the BUR system. This will expose the roofing ply-felts. If possible, cut a flap in the ply-felts big enough for the coring tool to fit.
2. On Modified Bitumen or Single-Ply roofing systems cut a flap big enough for the coring tool to fit.
3. Twist and push the coring tool side to side until you get to the roof deck.
   - ***Care must be taken to avoid damaging the roof deck***.
4. Once the deck is reached, remove the tool by twisting and pulling it up.
5. Once the tool is removed from the hole, push or tap on the plunger to remove the core from the tool.
   - This may require the use of a hammer
6. Once the core sample is removed from the tool, document with pictures the core that was removed from the roof and the hole that was left to ensure no moisture is present.
7. A roof sketch or satellite image noting the location of the core samples should also be provided as part of the report.
8. To seal the opening after evaluating and documenting the results at the test location:
   - Apply a good amount of mastic or caulk to the bottom of the hole created by the coring tool.
   - Put the core back into the hole it was removed from (preferably in the order it came out).
   - Apply mastic or sealant to the top of the core that was removed.
   - Close the flap over the core hole and complete the appropriate sealing of the core sample area.
     i. On BUR or Modified Bitumen roofs it is recommended to use reinforcing fabric and mastic to seal the hole.
     ii. On Single-Ply roofs complete an overlayment of the hole with like materials, or Pressure Sensitive tapes after cleaning and priming the area as needed.

Once completed, submit the survey results on the attached reporting form to MuleHide. This document is mandatory for all coating recover projects, and Single-Ply recover projects with warranties greater than 20-years in duration. The reporting form must be received with application for warranty, if it is not, the review of the project will be delayed.

Core Sample Moisture Survey Reporting Form

Date of Evaluation: _____
Attendees Name(s): _____

Project Name/ID: _____
Project Location: _____
_____

Existing Roofing System Type: Standing Seam Metal

Proposed System Type: Standing Seam Metal

Roof Age (if known): _____ (Years)
Is there currently a Warranty on this project (if so start/expire date)? _____
Active leaks present? (yes/No) Locations:

Test Area 1

Test Area 2

Test Area 3

Core Sample Moisture Survey Reporting Form

Test Area 4

Test Area 5

Test Area 6

Test Area 7

Core Sample Moisture Survey Reporting Form

Test Area 8

Test Area 9

Test Area 10

Additional Comments: