



Technical Bulletin

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Moisture Survey Requirements for MuleHide Recover and Coating Applications

MuleHide requires a moisture survey to be completed and submitted for all coating projects and all single-ply recover applications with warranty terms greater than 20 years when a system (NDL) warranty is requested. The survey is required to verify a moisture-free substrate and must be completed before installation of the new roofing system. A copy of the survey must also be submitted with the project's warranty application.

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 submitted. Minimum sampling requirements are outlined below:

- On projects under 10,000 sq ft a minimum of three core test per roof area.
 - 10,000-30,000 sq ft a minimum of 3-5 core tests.
 - 30,000-50,000 sq ft a minimum of 5-7 core tests.
- **On projects greater than 50,000 sq ft contact the MuleHide Technical Department (800-786-1492, Option 2) 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.
- Provide a minimum of two core samples for each roof section or roof level within the project.
- Additional core samples should be taken in the most moisture-prone areas of the roof (near drains, scuppers, areas of known leaks and areas showing evidence of ponding water).

Recommended steps to perform core sample evaluation for moisture in recover projects.

1. On existing built-up roofing systems (BUR), scrape off gravel or stone which is embedded in the top surface. 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 has been removed from the tool, take photos of both the extracted core sample and the resulting hole in the roof. Verify and document that 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 using the online reporting form at this link: [Moisture Survey Form](#). Failure to provide the completed form may delay project review.