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## Dry Film Thickness (Test Procedure) for Waterproofing Membrane

**Purpose:** The dry film thickness test is conducted to ensure that the applied waterproofing membrane meets the specified requirements and provides the desired level of protection against water ingress.

### Equipment and Materials:

- Dry film thickness gauge with appropriate calibration
- Measuring tape or ruler
- Marking pen or labels
- Surface preparation tools (if necessary)

### Procedure:

1. **Surface Preparation:**
  - Ensure that the surface is clean, dry, and free from any contaminants such as dust, dirt, grease, or other residues that may affect adhesion or measurement accuracy.
  - Repair any surface imperfections or defects before applying the waterproofing membrane.
2. **Application of Waterproofing Membrane:**
  - Apply the waterproofing membrane according to the manufacturer's instructions and recommended application method (brush, roller, or spray).
  - Follow the specified coverage rate and number of coats as per the waterproofing system's design.
3. **Dry Film Thickness Measurement:**
  - Use a dry film thickness gauge suitable for the type of waterproofing membrane being used. Ensure the gauge is calibrated correctly before measurement.
  - Randomly select several points on the applied waterproofing membrane for measurement.
4. **Measurement Points:**
  - Use a measuring tape or ruler to mark measurement points on the waterproofing membrane surface. Ensure the points are evenly distributed across the area.
5. **Take Measurements:**
  - Place the dry film thickness gauge perpendicularly on each measurement point and record the thickness reading in micrometers ( $\mu\text{m}$ ) or mils.
  - Take multiple readings at different points to ensure accuracy and repeatability.
6. **Calculate Average:**
  - Add all the measurements and calculate the average dry film thickness.
  - Compare the average thickness with the specified requirements from the manufacturer or project specifications.
7. **Comparison and Compliance:**
  - Compare the average dry film thickness with the specified requirements to determine compliance. Ensure the thickness meets the minimum required thickness for the intended waterproofing performance.
8. **Adjustment (if needed):**
  - If the measured dry film thickness does not meet the specified requirements, adjust the application rate accordingly and reapply the waterproofing membrane as necessary.
9. **Protection and Cure:**
  - Protect the applied waterproofing membrane from traffic or damage until it is fully cured.
  - Follow the manufacturer's recommended cure time before subjecting the waterproofing to any water exposure.
10. **Documentation:**
  - Record all measurements and calculations in the test report or site documentation for future reference.

**Note:** The dry film thickness test is crucial to ensure the effectiveness and durability of the waterproofing membrane. Proper measurement and compliance with the specified requirements will help ensure a reliable waterproofing system for internal, balcony, and rooftop areas.