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Apply vertical spray-applied membranes: QA and adhesion

Apply vertical spray-applied membranes with an interactive checklist for coverage, rebound, adhesion, and protection; commentable and export as PDF/Excel.

Project:	
Date:	
Filled by:	

Pre-Application Verification	
1	Confirm the system is spray-applied (not brush/roller liquid-applied); record product name, data sheet, and approvals; obtain supervisor sign-off.
2	Inspect vertical substrate soundness; remove laitance and weak material; verify clean, dry, dust-free surface; photo evidence with scale and date.
3	Measure substrate moisture with a calibrated meter; acceptance: ≤5% w/w or per approved project specifications; log readings and device serial number.
4	Record environmental conditions: 5–35 °C, RH ≤85%, substrate ≥3 °C above dew point; use calibrated psychrometer; attach screen/photo evidence.
5	Mask adjacent finishes and install ground-level catch boards/tarps within 0.5 m of wall; photo coverage before spraying.

Equipment and Spray Setup	
6	Verify spray equipment calibration per manufacturer: ratio within ±2% of target; record pressures/temperatures; capture system printout or dashboard photo.
7	Prepare materials per data sheet; record batch/lot numbers and expiry; retain labels and delivery dockets as evidence.
8	Create a 0.5 m^2 vertical mock-up; confirm finish, coverage, and rebound management; obtain client/consultant approval signature and photos.
9	Set spray fan, tip, and standoff distance (300–450 mm or per manufacturer); verify uniform pattern on test card; photo pattern.

Coverage and Rebound Control	
10	Apply in multiple light passes with 50% overlap to avoid sagging; no visible runs; supervisor visual check recorded with photos.
11	Measure wet film thickness (WFT) using a comb gauge: ≥5 locations per 10 m^2; acceptance: average at target, none below minimum.
12	After cure, measure dry film thickness (DFT) by ultrasonic gauge on a 1 m grid; acceptance: ≥95% area within –10%/+15% of target; no point below minimum.
13	Collect rebound after each lift; weigh and log mass; acceptance: ≤10% by mass relative to sprayed output; photo bagged waste.
14	Prohibit reuse of rebound; dispose per site environmental plan; attach disposal ticket and supervisor confirmation.
15	Detail corners and penetrations with fillets or sealant per system; minimum 10 mm radius; photo continuous coverage without pinholes.

Adhesion and Curing Verification	
16	Conduct pull-off adhesion tests with 50 mm dollies: min 5 per 100 m²; acceptance: ≥1.0 MPa or per approved project specifications and authority requirements; record values and failure modes.
17	Confirm cure readiness: tack-free check and hardness per data sheet; record time-since-application and measured hardness values.
18	Perform holiday detection on cured membrane where applicable using high-voltage spark testing; acceptance: zero holidays; mark, repair, and retest; photo evidence.

Protection and Detailing	
19	Install mechanical protection (e.g., 3–6 mm boards or 300 g/m² geotextile) before backfilling or adjacent works; photo full-height coverage.
20	Verify UV stability; if non-UV-stable, overcoat or conceal within manufacturer’s stated window; record dates/times and photos.
21	Coordinate terminations with termination bars, sealant, or flashings; continuous bead and fixings at specified centres; photo close-ups.

Documentation and Handover	
22	Confirm exclusion of brush/roller liquid-applied systems in this work package; upload supervisor statement and product installation evidence.
23	Final inspection on 1 m grid: recheck DFT at random points, verify repairs closed; attach as-built photos with measuring scale.
24	Compile dossier: data sheets, lot numbers, calibration records, WFT/DFT logs, adhesion results, repairs; obtain stakeholder sign-offs.
25	Record safety controls during spraying: ventilation, PPE, and ignition control; evidence: toolbox talk record and daily checklist with signatures.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Apply vertical spray-applied membranes is the head term for this focused, field-ready quality checklist. It guides teams through spray waterproofing on vertical substrates, verifying uniform coverage, rebound control, adhesion, and long-term protection. The scope covers sprayed membrane systems (e.g., polyurea, elastomeric, cementitious spray-applied coating) installed on vertical elements only, and explicitly excludes brush/roller liquid-applied systems as well as unrelated horizontal works. By following these steps, you reduce risks of under-coverage, sagging, overspray, rebound waste, poor adhesion, blistering, and post-installation damage. You will capture measurable evidence—film-thickness readings, pull-off values, photos with scales, lot numbers, and sign-offs—so stakeholders can rely on traceable compliance per approved project specifications and authority requirements. The outcome is a durable, continuous vertical barrier integrated with penetrations and terminations, protected until concealment or service. Use this as a live, collaborative tool: tick items, add comments with photos, and export to PDF/Excel with a QR-secured record.	1. Preparation: Review the approved data sheet, verify vertical scope only, assemble gauges (WFT/DFT), pull-off kit, PPE, masking, and calibrated environmental instruments. 2. Set up: Create or confirm an approved mock-up, calibrate equipment, and stage catch boards and protection before opening materials. 3. Using the Interactive Checklist: Start interactive mode, tick items in sequence, and add time-stamped comments with photos, readings, and lot numbers. 4. Evidence capture: Attach measurement logs, equipment calibration records, and close-up photos showing scales and defect repairs with retest results. 5. Export and share: Generate an export as PDF/Excel for review meetings and upload to the project document system. 6. Sign-off: Collect digital signatures from contractor, consultant, and client; archive the QR-authenticated record for compliance and warranty.