



Test façade sealant cohesion and cure – final acceptance

Test façade sealant cohesion and cure before final acceptance with an interactive checklist. Commentable steps, calibrated evidence, and results you can export as PDF/Excel.

Project:

Date:

Filled by:

Pre-Test Documentation

1	Confirm sealant make, product name, colour, and batch/lot numbers match approved submittals; photograph cartridges/pails and labels for records; acceptance: exact match to submittals; evidence: photos and submittal reference.
2	Verify the minimum elapsed cure time per product data sheet for joint size and temperature; acceptance: time equal to or exceeding requirement; evidence: installation and test timestamps in log.
3	Select and mark test locations on mock-ups or expendable joint ends; obtain supervisor/consultant approval; acceptance: written approval; evidence: marked-location photos and signature in app.

Environmental Conditions

4	Measure ambient and substrate temperatures with a calibrated thermometer/IR probe; record in °C; acceptance: within manufacturer's testing range; evidence: readings and calibration date.
5	Record relative humidity and wind speed using hygrometer and anemometer; acceptance: within limits that do not distort surface tack tests; evidence: readings logged with time.
6	Confirm joint surfaces are dry and clean at test points using a lint-free cloth and, if specified, a moisture meter; acceptance: no moisture transfer, readings below threshold; evidence: photo of cloth/meter.

Surface & Joint Review

7	Check joint geometry with ruler/gauge: width, depth, backer rod/bond breaker present; acceptance: geometry per approved details; evidence: annotated photo with scale.
8	Inspect sealant skin for contamination (dust, oils, bloom); clean surrounding area per product instructions before testing; acceptance: visibly clean surface; evidence: before/after photos.
9	Mask adjacent finishes at test points with painter's tape or shields; acceptance: no damage to substrates; evidence: protected-area photos.

Cure Verification Tests	
10	Tack-free film test: press clean polyethylene film to sealant for 10 s, then lift; acceptance: no sealant transfer or smearing; evidence: close-up photo of film and surface.
11	Measure Shore A hardness with calibrated durometer on flat areas; take 5 readings ≥ 12 mm apart; acceptance: average within product data sheet range; evidence: readings, photo of gauge contact, calibration record.
12	Solvent rub (if permitted): 10 firm strokes with approved solvent on cloth; PPE required; acceptance: minimal color/soft residue per product guidance; evidence: photo of cloth and observations.
13	Cure-depth slice at expendable edge: 45° cut with sharp blade; examine core; acceptance: uniformly cured, no uncured gel; evidence: macro photo; restore per repair procedure.

Cohesion Assessment Tests	
14	Elastic stretch: grip a 100 mm segment at expendable area and extend 25–50%; acceptance: continuous elastic behavior without tearing; evidence: photo/video and measured elongation.
15	Cut-and-pull at designated points per approved method to classify failure mode; focus on cohesive continuity; acceptance: failure mode and extent meet project criteria; evidence: photos and notes.
16	Void check: compress and release a 50 mm span; observe for crackle or voids; acceptance: no visible internal voiding; evidence: video or sequential photos.
17	Recovery measurement: extend bead 25%, release, and measure width after 60 s with caliper; acceptance: recovery per product data sheet (e.g., $\geq 90\%$); evidence: before/after measurements and photos.
18	Cold-flex check (if ambient ≤ 5 °C): bend cured sample from mock-up to 180°; acceptance: no cracking or brittle fracture; evidence: photo and recorded temperature.

Recording & Acceptance	
19	Log instrument serial numbers and calibration dates for durometer, thermometer, hygrometer; acceptance: calibrations current per QA plan; evidence: certificates or labels photographed.
20	Compare all results to approved project specifications and authority requirements; acceptance: all cure and cohesion checks pass; evidence: filled comparison checklist.
21	Flag nonconformities: mark failed points, issue NCR, define corrective action, and retest window; acceptance: closed NCR with passing retest; evidence: photos and signatures.
22	Obtain digital sign-offs from installer, GC, and consultant; export report; acceptance: all signatures captured and report archived; evidence: PDF/Excel export with QR code.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Test façade sealant cohesion and cure before final acceptance is a focused procedure ensuring façade joint sealants have properly cured and exhibit robust cohesive behavior before handover. This checklist supports sealant cure verification and cohesion testing on silicone and polyurethane façade joint sealants installed over backer rod or bond breaker tape. By confirming tack-free status, Shore A hardness, solvent resistance, cure depth, elastic recovery, and failure modes at controlled test points, teams reduce the risk of dirt-pickup, premature tearing, joint leakage, or costly rework. The scope excludes wholesale adhesion qualification of substrates and lab certification; it emphasizes practical, minimally invasive field verifications at mock-ups or designated expendable areas, per approved project specifications and authority requirements. Use this tool to standardize measurements, capture calibrated evidence, and document approvals so acceptance decisions remain defensible. Start interactive mode to tick items, add comments with photos, and export results as PDF/Excel; a QR code secures authenticity for audit trails.	1. Preparation: Gather Shore A durometer, calibrated thermometer/IR probe, hygrometer, anemometer, polyethylene film, approved solvent and lint-free cloth, masking tape, ruler/caliper, sharp knife, PPE (gloves, eye protection, respirator filters). Confirm product data sheet, submittals, and designated test locations are available and approved. 2. Using the Interactive Checklist: Start interactive mode, tick items as you proceed, attach photos, and log readings. Add comments for anomalies and approvals. When complete, export as PDF/Excel; the system embeds a QR code for authenticity and easy retrieval. 3. Sign-Off: Capture digital signatures from installer, GC, and consultant. Distribute the QR-authenticated export to stakeholders and archive within the project QA system for traceable, auditable acceptance records.