READY TO INSPECT — FIELD CHECKLIST

Shotcrete final inspection checklist

Shotcrete final inspection is where the punch list is either short or expensive. This checklist walks the finished work the way an owner or AHJ will see it: devices on, systems running, everything labeled. Each item gets the photo that closes it instead of reopening it. Work is commonly verified against ACI, the applicable building code. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The GC's superintendent with the shotcrete foreman, walking the finished surface before it's covered, tiled or backfilled. When: After shooting and finishing are complete and initial cure has begun, before the surface is coated, plastered or hidden.

Thickness and rebound

- [ ] In-place thickness verified across the surface
  Finished thickness confirmed at depth gauges and by probing or cores between them, meeting the specified thickness with no thin zones.
  2 photos required
- [ ] Rebound removed, not buried
  Overspray and rebound cleaned off reinforcement, ledges and the work face before the next pass, not encapsulated in the section.
  2 photos required
- [ ] Ground wires and thickness gauges removed or set below the face
  Wires pulled or cut and gauge pins trimmed back from the finished face so no steel is left exposed to rust through the surface.
  1 photo required
- [ ] Rebound hauled away, not reused or left at the toe
  Rebound piles at the base of the wall or slope cleared before they harden, and never shoveled back into the hopper or pump.
  1 photo required

Finish and density

- [ ] Surface finish and density sound
  Finish to the specified texture, no sand pockets, laminations or dry patches, surface sounded for hollow or drummy areas.
  2 photos required
- [ ] Cracks noted and evaluated
  Any shrinkage or structural cracks marked and measured, distinguished from surface crazing, tracked for repair before closeout.
  1 photo required
- [ ] Finished face walked for exposed bar, chairs or tie wire
  No reinforcement, tie wire ends or standoffs showing at the face; any found marked for cover repair before curing ends.
  1 photo required
- [ ] Masking pulled and rebound cleaned out of embeds and blockouts
  Sleeves, anchors and blockouts uncovered, clear of shotcrete and rebound, and still at the locations shown after shooting.
  1 photo required
- [ ] Face checked to line and plane with a straightedge or string
  Finished face checked against the line and plane tolerance in the specifications; high and low spots marked for correction.
  1 photo required

Curing

- [ ] Curing carried through the required period
  Wet cure or curing compound applied per the specification and maintained for the full period, surface kept from drying on walls and slopes.
  1 photo required

Testing and records

- [ ] Panel or in-place core report on file from the testing agency
  Testing agency's report shows core grades for encasement behind reinforcement and strength compared to the specification.
  No photo required
- [ ] Special inspector's shooting reports filed for each placement
  Where the statement of special inspections covers shotcrete, a daily report for every placement is on file with any open items listed.
  No photo required
- [ ] Placement log ties each area to date, nozzle operator and batch
  Log shows the wall or slope area shot, date, nozzle operator and batch tickets, so any core or panel result traces back to its area.
  No photo required
- [ ] Nonconforming areas reported to the engineer of record
  Thin zones, low core grades or voids behind bars sent to the engineer of record with locations; repair waits for their direction.
  No photo required