READY TO INSPECT — FIELD CHECKLIST

Concrete repair and restoration rough-in inspection checklist

Concrete repair and restoration rough-in is the last time the work is fully visible. Once the cover inspection passes and the walls, ceilings and slabs close, every defect left behind becomes a demolition bill. This checklist walks the rough-in in the order the work goes in, with the photo each item needs before it gets buried. Work is commonly verified against ICRI guidance, ACI, manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The restoration foreman with the GC's superintendent, releasing prepared cavities before any repair mortar is placed. When: After removal and cleaning, immediately before placement, while the cavity, reinforcement and saturation state are all still open to inspect.

Survey and layout

- [ ] Repair areas outlined on the surface from the sounding survey
  Each hollow area marked in paint past the edge of the drummy zone and numbered to match the repair drawings or survey log.
  1 photo required

- [ ] Repair detail assigned to each area from the engineer's documents
  Every marked area tied to the repair type the engineer's repair documents show; areas past the defined repair limits sent back to the engineer before cutting.
  No photo required

- [ ] Saw-cut depth set clear of the reinforcement
  Bar cover checked along the outline before cutting so the saw stops short of the steel, and no bar nicked or severed at the perimeter cut.
  1 photo required

Removal

- [ ] Removal carried to sound concrete
  Delaminated and unsound material fully removed, the exposed base ringing solid on sounding, no soft or drummy spots left in the cavity.
  2 photos required

- [ ] Edges saw-cut square, not featheredged
  Perimeter cut to a defined square edge at the required depth, no thin feathered tapers around the cavity.
  2 photos required

- [ ] Removal tools match the method in the repair documents
  Breakers or other removal equipment on site are the type and size the repair specification allows, so removal does not bruise the sound concrete left behind.
  1 photo required

- [ ] Cavity depth within the repair product's thickness range
  Depth measured across the cavity against the minimum and maximum placement thickness in the product data, with the tape in the shot.
  1 photo required

Reinforcement

- [ ] Exposed reinforcement cleaned and coated
  Bars cleaned of rust and scale, undercut where required for clearance behind them, coated per the product instructions after cleaning.
  2 photos required

- [ ] Exposed bars checked for section loss and logged
  Each bar with visible loss of section measured and logged by area; supplemental bars or splices wait for the engineer's direction.
  No photo required

- [ ] Corrosion at the cavity edge followed along the bar
  Where a bar is still corroded where it enters the cavity edge, removal extended along it to clean steel or the condition reported to the engineer.
  No photo required

Surface condition

- [ ] Surface profile and saturation state correct at placement
  Substrate roughened to the specified profile, cleaned of dust and debris, brought to the required saturated state without standing water in the cavity.
  2 photos required

- [ ] Bonding coat applied per the product where required
  Where the repair mortar calls for a scrub or bonding coat, it is worked into the prepared substrate and the repair placed while it is still active, not dried out.
  No photo required

Release for placement

- [ ] Repair material bag labels match the approved submittal
  Product name, lot number and shelf-life date on the bags or pails on site read against the approved product data before mixing starts.
  1 photo required

- [ ] Air and substrate temperature read against the product data
  Air and surface temperature at the repair read and logged before mixing, within the placement range the manufacturer's instructions give.
  1 photo required

- [ ] Prepared cavities reviewed where the engineer requires it
  Where the repair documents call for the engineer or inspector to see cavities before placement, the review date and any comments recorded by area.
  No photo required