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Concrete Repair and Restoration Inspection Checklist

Interactive checklist for concrete repair and restoration inspection. Tick, comment, export as PDF/Excel with QR code security.

Project:

Date:

Filled by:

Pre-Inspection Preparation

1	Review project documentation and previous inspection reports to understand the scope of work.
2	Ensure all necessary safety gear is available and in good condition.
3	Verify that the inspection tools, such as measuring tapes and moisture meters, are calibrated and functional.

Surface Preparation

4	Check that all loose and deteriorated concrete has been properly removed.
5	Verify that the surface has been cleaned of dust, oil, and debris before repair application.
6	Ensure the surface roughness meets the specified requirements for bonding (e.g., CSP 3-5).

Material Verification

7	Confirm that the repair materials used match the specifications in the project documents.
8	Check the expiry dates and storage conditions of repair materials.
9	Inspect material mixes for consistency and homogeneity before application.

Application Process

10	Observe the application process to ensure it follows the specified method (e.g., trowel, spray).
11	Check for uniform application thickness as per design specifications.
12	Ensure that curing conditions are met, such as maintaining temperature and humidity levels.

Post-Application Inspection

13	Inspect the repaired area for surface defects such as cracks or air bubbles.
14	Verify the adhesion strength of the repair area through pull-off tests.
15	Document the final condition of the repaired areas with photographs and notes.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Concrete repair and restoration is a critical process to ensure the longevity and structural integrity of concrete structures. This phase involves assessing the damage, selecting appropriate repair methods, and implementing solutions to restore the concrete to its original condition. This checklist guides inspectors through a comprehensive assessment of repair and restoration work, including surface preparation, material selection, and application techniques. Proper inspection is crucial to avoid future structural failures and ensure safety. Users can interact with this checklist online, marking tasks as complete, leaving comments, and exporting the final report with a secure QR code.	1. Ensure all necessary tools and safety equipment are prepared, including personal protective equipment, calibrated measuring instruments, and project documentation. 2. Click the 'Use this checklist' or 'Start Interactive Checklist' button to launch interactive mode. 3. Tick each item online as you complete it, ensuring thorough inspection. 4. Add comments on individual items or the entire checklist as needed to document insights or issues. 5. Click 'Share' or 'Download' to download your completed checklist as PDF or Excel. Secure the document with a QR code for authentication.