

Lecture 6.42: Repair and Rehabilitation stages- Removal of damaged concrete, Pretreatment o... Concrete Technology (DI04006011)

Civil Engineering Department

Lecture Agenda

- 1. Repair and Rehabilitation stages- Removal of damaged concrete, Pretreatment of surfaces and reinforcement, Application of repair materials, Repair Procedure.
- 2. Summary and Q&A

6.4 Repair and Rehabilitation stages- Remova...

- Stage 1: Condition assessment and identifying the root cause of the damage.
- Stage 2: Removal of defective/spalled concrete beyond the corroded rebar to expose sound concrete.
- Stage 3: Pretreatment of surfaces; cleaning rust from rebars (sandblasting) and applying anti-corrosive coating.
- Stage 4: Application of bonding agent to ensure monolithic behavior between old and new material.
- Stage 5: Placing the repair material, proper compaction, and curing according to specifications.

Summary

- Recap of the specific material properties and methods discussed.
- Always refer back to the standard IS codes for parameter limits.