

Lecture 6.44: Repair and Rehabilitation techniques - Grouting, Guniting, Routing and sealin...

Concrete Technology (DI04006011)

Civil Engineering Department

Lecture Agenda

- 1. Repair and Rehabilitation techniques - Grouting, Guniting, Routing and sealing, Stitching, Drilling and Plugging etc.
- 2. Summary and Q&A

6.6 Repair and Rehabilitation techniques - G...

- Grouting: Injecting fluid cementitious or chemical mixtures into voids or cracks under pressure.
- Guniting: Dry-mix shotcrete applied at high velocity to rebuild spalled surfaces.
- Routing and Sealing: Enlarging surface cracks into a V-shape and filling with flexible elastomeric sealants.
- Stitching: Drilling holes across a crack and inserting U-shaped steel staples anchored with epoxy.
- Drilling and Plugging: Used to stop active water leaks in retaining walls or basements.

Summary

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