

Lecture 6.43: Repair and Rehabilitation material - Cement, Steel and special material like,...

Concrete Technology (DI04006011)

Civil Engineering Department

Lecture Agenda

- 1. Repair and Rehabilitation material - Cement, Steel and special material like, Shotcrete, Epoxy resins, Epoxy mortar, Gypsum cement mortar, Quick setting cement mortar etc.
- 2. Summary and Q&A

6.5 Repair and Rehabilitation material - Cem...

- Cement Mortar: Standard economical repair material for minor surface defects.
- Polymer Modified Mortar (PMM): Addition of polymers improves bond strength, flexibility, and impermeability.
- Epoxy Resins: Extremely high bond strength and chemical resistance; used for crack injection.
- Shotcrete / Guniting: Pneumatically applied high-velocity mortar; excellent for vertical/overhead repairs.
- Quick Setting Cement: Used for emergency repairs, plugging active water leaks, or underwater patching.

Summary

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