



# Gaps on ceiling

## Reasons for Gap in the ceiling.

1. Poor compaction during concreting.
2. Honeycombing occurred due to improper vibration and the absence of admixture during construction.
3. Shrinkage or settlement cracks.
4. Workmanship issues during slab casting.
5. Corrosion of reinforcement leading to spalling.

## Step by Step Procedure of Repair.

### 1. Surface Preparation

- Remove all loose and unsound concrete around the gap.
- Expose reinforcement, apply REDWOP 3IN1 by brush.
- Clean rust using wire brush/mechanical tools.
- Wash area thoroughly and keep surface in SSD (saturated surface dry) condition.



### 2. Reinforcement Treatment

- Apply approved anti-corrosive coating of BARGUARD to re-bars.

### 3. Bonding Coat

- Apply epoxy bonding coat of EPBOND EP or polymer-modified slurry of BUTABOND SBR to concrete substrate.
- Mix BUTABOND SBR and OPC 53 grade Cement in ratio of 1:2 and apply it using brush & Spray pump, leave it for minimum 6 hours for its proper setting.
- If higher strength is required use epoxy bonding agent EPBOND EP.
- Mix Base and Hardner of EPBOND EP in 3:1 ratio by paddle and apply it by brush.



### 4. Mixing and application of Micro Concrete

- Take 25 kg of MICROCON 100 PT.
- Mix it properly with 4.0 litres of potable water.

- Apply the prepared mixture in a uniform layer of 10 mm thickness.
- Ensure application is done on the entire surface, including angles and corners.
- Allow the surface to remain for 24 hours for self-curing and drying.



#### 5. Application of wall putty

- Wet surface with water 1 hour prior to application.
- Add 3 part of WHITPLAST SF to 1 part of water in suitable container and blend it properly
- With electric blender to get lump free paste.
- Apply paste on the damp surface using a painter's putty knife and level paste in thin layers, until any irregularities or protrusions have been completely covered.
- This may require 2-3 coats. Allow each coat to dry for 20-30 minutes before the application of further coats.



#### 6. Application of final coat

- Apply first coat of Nerpu by brush/roller/spray. After 4 to 5 hours apply second coat of Nerpu.

