



# Patches on Road

## Reasons for Road Patches / Damages

1. Poor compaction of base/sub-base during construction.
2. Inadequate concrete mix design or use of weak mortar.
3. Overloading of vehicles leading to stress cracks.
4. Water ingress causing weakening of surface.
5. Improper curing during initial construction.

## Step by Step Procedure

### 1. Surface Preparation

- Mark damaged patch area with chalk/paint.
- Cut the boundary of patch in a neat rectangular or square shape.
- Make the patch minimum 50 mm Deep.
- Remove all loose, broken, or weak concrete/mortar material.
- Clean the cavity with air blower/water jet to remove dust and debris.
- Keep surface in SSD (saturated surface dry) condition before applying repair material.

### 2. Base Layer Treatment

- If reinforcement is there and is exposed, clean rust by applying REDWOP 3IN1 and apply anti-corrosive passivator BARGUARD.

### 3. Bonding coat

- Apply polymer-modified cement slurry BUTABOND SBR or epoxy bonding coat EPBOND EP on base to improve adhesion.



### 4. Application of Redoset 4H2O

- Add 3.5 to 3.75 liters per 25 kg bag of REDOSET 4H2O.
- The mixture is thoroughly mixed in a forced-action mixer of adequate capacity.
- The mixed material should be placed immediately. If placed by pump, standard concrete pumping practice should be followed. The pump and pipeline must be primed with cement slurry. Pumping should be commenced immediately after priming. If poured in the form work, avoid air entrapment by pouring from one side only.

### 5. Curing

- As REDOSET 4H2O is a cement-based repair material, its quick setting property allow to traffic after 2 to 4 hours of repairing.

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