



# REDOSET 4H20

Fast setting patch repairing mortar

## Description

REDOSET 4H20 is supplied as a ready to use blend of dry powder, which requires only the site addition of clean water to produce a high grade cement based patch repairing mortar. The material is based on Portland cements, and fillers, and additives which impart early strength and achieves initial set in 10 to 30 minutes and final set is achieved in 30 to 90 minutes. Its quick setting property allow opened to traffic after 2 to 4 hours of repairing.

## Advantages

- Easy in application
- High early strength and fast setting
- Pre-packed to overcome site-batched variations.
- Excellent adhesion property with old concrete substrate
- Economical and durable, Contains no chloride

## Uses

- To repair damaged horizontal concrete elements airport runways, expressways, highways, bridge decks, sidewalks, parking decks, loading docks and floor.
- In vertical concrete repairing works after doing proper formwork.

## Placing

- 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.

## Curing

- As REDOSET 4H20 is a cement-based repair material, it must be cured immediately after stripping the formwork in accordance with good concrete practice.

## Technical Information

TEST	SPECIFICATION
Color	Grey
Appearance	Powder
Compressive Strength	>15 N/mm <sup>2</sup> @ 2 hours >20 N/mm <sup>2</sup> @ 4 hours >40 N/mm <sup>2</sup> @ 1 day >60 N/mm <sup>2</sup> @ 7 days >70 N/mm <sup>2</sup> @ 28 days
Wet Density	2200 to 2250 Kg/m <sup>3</sup>
Working time	10 minute

Note : The above test result were achieved under of laboratory condition.

## Method of Application

- Defective concrete surfaces must be cut back to a sound base than smooth surfaces should be mechanically roughened.
- Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is important to clean the steel to a bright condition. Grit-blasting is recommended.
- Immediately prior to placing, prewet surface with potable water.
- Prime the prepared surface after removal of excess water with BUTABOND SBR.
- Care should be taken to ensure that REDOSET 4H20 is thoroughly mixed in a forced-action mixer of adequate capacity. The quantity water required will generally be between 3.5 to 3.75 liters per 25 kg bag of REDOSET 4H20 .
- For vertical patch repair work Slurry tight form work that should not deform or leak when subjected to hydraulic pressure imposed by the micro concrete will be fabricated and erected where the material is gravityfed.

## Packaging

- REDOSET 4H20 is supplied in 25 kg bags.

## Storage

- REDOSET 4H20 has a shelf life of 6 months if kept in a dry store in the original, unopened bags. If stored at high temperatures or high humidity conditions the shelf life may be reduced.

## Heath & Safety

- REDOSET 4H20 should not come in contact with skin and eyes or be seelowed. REDOSET 4H20 is alkaline. Avoid inhalation of dust while mixing REDOSET 4H20. The use of protective clothing, gloves, goggles and barrier cream is recommended. A dust mask should be used when handling REDOSET 4h20 if contact with skin occurs wash thoroughly with plenty of clean water. if irritation persists or if swallowed, seek medical attention immediatly. Do not induce vomiting.

## REDWOP CHEMICALS PVT. LTD.

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