



Technical Data Sheet

CEMPATCH HM

General purpose high strength repair mortar (Micro Concrete)

Advantages:

- * Non-shrink. Does not shrink by volume
- * High strength. Attains ultra high strength
- * Can be placed without vibration. No segregation & bleeding
- * Can also be used in mortar consistency for small repairs
- * Prepacked ensures quality consistency
- * Low permeability. Ensures water tightness
- * Contains no corrosive substances

Product:

A factory blended ready to use high strength, shrinkage compensate repair mortar.

Purpose:

For repairs to damaged reinforced concrete elements, particularly where access is restricted and vibration of the placed material is difficult.

Usage:

CEMPATCH HM can be used for various reinforced damaged / spalled concrete.

Packing:

25 kg lined HDPE Bags.

A SUBSIDIARY OF DON CONSTRUCTION PRODUCTS LTD., U.K.



No.4, II Block, Chowdhary Complex, Nandanam Extension, 5th Street, Nandanam, Chennai – 600035

Tel: 24331817, 24335345, 52110993 Fax: 24338272 E-mail: dccil@vsnl.com Website: www.don-india.com

DESCRIPTION:

CEMPATCH HM is supplied as a ready to use powders which requires only the site addition of clean potable water to produce dense, low permeable micro concrete.

PROPERTIES:

Days	Fluid Consistency W/p ratio 0.19 (4.75 Lt /25kg bag)	Mortar Consistency (W/p ratio – 0.14 i.e., 3.5 Lt/25kg bag)
1 day	150	200
3 days	250	300
7 days	325	350
28 days	400	480

EXPANSION:

0.8% to 1% by volume

FRESH DENSITY:

Fluid Consistency - appx. 1900 kg/m³
Mortar Consistency - appx. 2300kg/m³

APPLICATION PROCEDURES:**SURFACE PREPARATION:**

Defective concrete surface must be cut back to a sound base. Smooth surfaces should be mechanically roughened. Corroded reinforcing steel should be exposed around its full circumstances and clean the scale and corrosion by stiffed wire brush. Grit blasting or water jetting is recommended.

One coat of CEMPATCH R (a reinforcement protective coating) should be applied on the reinforcing steel. Prior to application or CEMPATCH R, surface should be thoroughly cleaned and saturated with clean water.

After application of CEMPATCH R, apply QUICKMAST 108, a bonding agent on the concrete surface.

FLUID CONSISTENCY:

CEMPATCH HM can be used in free flowing consistency, which ensures leak proof formwork. The formwork should include drainage outlets of pre-soaking and provision for air ventilation should be made.

Note 1: For large repairs the washed cleaned 5mm to 12mm graded aggregates can be mixed by 50% to 100% by weight of mortar.

Mixing:

Fluid Consistency: Precise quantity of water i.e., mechanically by drilling machine attached with paddle or concrete mixer.

DO NOT MIX CEMPATCH HM BY HAND

Mortar Consistency: For plastering / rendering, add precise quantity of water i.e., 0.14 w/p ratio (3.5 litres / 25 kg bag)

Placing:

Fluid: Fluid consistency material should be poured immediately within 20 minutes

Screed:

Within 20 to 25 minutes screed should be placed.

Curing:

Repaired surfaces should be cured immediately after demoulding of shutter and where screed is laid within 5 hours and upto 7 days water curing should be done. Or apply SETCRETE 8, a curing aid immediately after demoulding and in case of screed immediately after finishing.

STORAGE & SHELF LIFE:

6 months period in dry, shaded condition in original sealed pack.

HOW TO SPECIFY:

A high strength, non-shrink micro concrete repair material CEMPATCH HM shall be used in accordance with the instructions of DON CONSTRUCTION CHEMICALS INDIA LTD.

TECHNICAL SERVICES:

Technically trained personnel are available on request to assist the usage and correct application of the product

The information given in this data sheet on both current development work and many years field experience. Whilst every effort is made to ensure that the information is reliable. We cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc.

In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up to date publication. All products are sold subject to our standard conditions of sale which are available on request.

Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local DON representative.