

RENOCEM BM

Cement based bedding & joint filling mortar

Description

Renocem BM is a pre-blended fine bedding mortar made from specially selected cements, fillers and additives. **Renocem BM** provides a homogeneous base for paving, cobbles, flags and block paving which will receive foot traffic after 24 hours and vehicular traffic after 48 hours. **Renocem BM** is also used as a high strength filling mortar between precast concrete sections.

Renocem BM can be laid from 10mm to 75mm in one pass. Greater depths can be laid by using successive layers of around 50mm thick. **Renocem BM** is easily mixed on site by the addition of 2.4 - 2.8 litres of water to 1x 25kg bag of **Renocem BM**.

Application

The surface that is to receive the **Renocem BM** should be clean, even and laitance free, The surface should be thoroughly pre-soaked with water and all ponded water removed before the application of the bedding mortar. A slurry primer coat (of 1 part **Renocem BM** to 1 part water) is normally recommended.

Benefits

- Durable substrate
- Excellent adhesion to concrete substrate
- Homogeneous mortar
- Early traffic movement can be accepted
- Multi use
- Simple mixing and application process



Properties

Renocem BM meets the requirements of IBDiM.

Compressive Strength @ 1 day - 20.0N/mm²
Compressive Strength @ 7 days - 40.0N/mm²
Compressive Strength @ 28 days - >45.0N/mm²

Flexural Strength @ 1 day - 5.0N/mm²
Flexural Strength @ 7 days - 6.0N/mm²
Flexural Strength @ 28 days - >11.0N/mm²

Shrinkage @ 28 days - 0.06%
Adhesion (without primer) - >1.5MPa
Workability in normal conditions - 60 minutes
Working temperature - 5°C - 35°C
Modulus of elasticity - <21500N/mm²

Approximate Yield for a 25kg pack

13.3 litres

Water Addition

Between 2.4 - 2.8 litres to 1 x 25kg bag

Note:

It is recommended that 2 litres of water is used as the initial mixing water. The addition of the remaining water can be added to the mix to achieve the preferred mortar consistence.



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Storage

Renocem BM should be stored undercover, protected from extreme temperatures and stored unopened within the range 5°C and 30°C. Moisture ingress will cause the product to harden. Hardened product should not be used.

Handling

Please refer to the **Renocem BM** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

Packaging

Supplied in 25 kg bags.

Application Notes

Preparation

Contact surfaces must be sound, clean and provide a good mechanical key. Remove any loose material, latence, plaster, paint and oily deposits.

Mixing

Renocem BM is supplied in 25kg bags. The water requirement is 2.4 - 2.8 litres of water per 25kg bag.

Mixing of bagged **Renocem BM** requires a forced action mixer such as a Creteangle.

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

Placing of Fine Bedding Concrete and Paving

Apply the mixed **Renocem BM** to the primed substrate before the priming coat has dried. Compact the **Renocem BM** to ensure good contact with the underlying primed surface. Paving unit surfaces should be free of dust and contamination. It is advisable to dip setts/cubes in clean water to clean and soak them prior to priming. Prime the back of the paving units being used and place the units onto the wet **Renocem BM** and adjust the levels as required. Always ensure that the bedding mortar layer is fully compacted.

Application thickness of the **Renocem BM** should be in the range of 10mm to 75mm. In situations where thick layers are required to be built up, the surface of the under layer should be left with a wood float finish and should be scored. Subsequent primer and fine bedding mortar layers may be applied as soon as the initial layer is firm enough not to distort under the new work.

Renocem BM should be laid at between 5°C and 35°C.

Curing

In ambient conditions, no special curing is required. In severe drying conditions of high temperature and high wind, the paved surface should be sprayed with water to assist with temperature control of the paving surface and provide water for additional curing of the **Renocem BM**.

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