

# SRM - H

## STRUCTURAL REPAIRING MORTAR

### SMART ADVANTAGES

- High strength
- Flowable
- For all kind structural repairs

### PRODUCT DESCRIPTION

SRM - H, is a mineral-based, non-shrink structural repairing mortar for fibre-enhanced, cement-based, horizontal applications. It is prepared with reinforcement of granulometric sand, cement and high quality chemical additives applied manually. Bostik SRM - H is in compliance with TS EN 1504-3 R4 class with high adhesion quality, and high initial and final compression strength.

### AREAS OF APPLICATIONS

- Interiors and exteriors
- Horizontally
- In the repair of reinforced concrete construction elements
- For the protection of concretes against sulphate and chlorine effects
- In the repair and maintenance of sea constructions
- In the repair and protection of underground works of art
- In the repair of surface decompositions as well as surface leveling of concrete elements
- For obtaining an impermeable and strong layer in exposed concretes
- In the installation of prefabricated concrete constructional elements
- Used in the floorings with light and medium traffic load and the floorings on which specialty facing may be applied, and for surface repairing

### FEATURES

- Strongly adheres to the concrete and the reinforcement
- High compressive strength
- Resistant to freezing-thawing circle
- Resistant to chlorine and sulphate attacks
- Resistant to water, constant wetness, frost and adverse weather conditions
- Non-shrink
- Fireproof

### PREPARATION THE SUBSTRATE

- The application surface should be dry, clean and free from dirt and other adherence reducing materials as well as crack-free, stable and strong enough to bear burden.
- When necessary, application surface should be cleaned with sanding, pressure water or pressure air spraying methods. If there is water discharge in the surface, it should be drained or blocked with a suitable plug. The edges of the surface that is formed by breaking should be cut vertically, the dust on the reinforcements should be cleaned and new reinforcement should be added if necessary.
- Before repairing, the surface should be wetted sufficiently, however water accumulation on the surface should be avoided.

### APPLICATION

- Water (2/3 of the amount stated on the chart above) at normal environment temperature is poured into a clean container. Then, some dry mortar is added in the container which is full of water and mixed with a suitable mixing machine or device without stopping. It is mixed until a



### TECHNICAL DATA

Dmax (mm)	4
Colour	Grey
Applicable Thickness (mm)	Min 10 mm Max 40 mm
Dry Unit Volume Weight (kg / lt)	1,2 ± 0,2
Wet Unit Volume Weight (kg / lt)	2,0 ± 0,2
Pot Life (min.) (at 20°C)	30
Curing Time (hour) (at 20°C)	24
Final Curing Time (day) (at 20°C)	28
Compressive Strength (28 days) (N/mm <sup>2</sup> ) (TS EN 196)	≥ 60
Flexural Strength (28 days) (N/mm <sup>2</sup> ) (TS EN 196)	≥ 8
Adhesion Strength (28 days) (N/mm <sup>2</sup> ) (TS EN 196)	≥ 2
Water Mixing Ratio (for 25 kg dry mortar)	3,5 - 4 lt
Environment and floor temperature for application	Between +5°C and +35°C

Technical data is obtained according to +23°C air temperature and 50% relative humidity.

smooth and homogenous mixture is obtained.

- Some amount of water, which should not exceed the amount stated on the technical data chart, can be added in the mortar prepared in order to obtain the desired consistency.
- After 2 minutes' aging period, the mortar is mixed gently again. The mortar, which is now ready to apply and highly fluid, should be applied within maximum 30 minutes.
- In order to prevent air bubble formation in the mortar, or if an application is to be carried out without mould, the application should start from only one corner or edge, and the air inside should be released. The poured mortar should be mixed and checked with a tool when necessary and air bubbles should be removed.
- The mortar should be continuously poured onto the

surface from only one side of the mould in 10 mm and 40 mm thickness for one layer.

- In order to fill all the gaps in the mould, it should be settled with a steel string with a hooked tip. No vibrator should be used.
- The moulds should not be removed before 18 – 24 hours.
- The wide exposed surfaces and hot, dry or windy environments should be protected from rapid evaporation with wet sack, water or special curing materials for 24 – 48 hours.
- It should not be in contact with liquids of which pH value is below 5,5.

#### AFTER APPLICATION

The exposed and newly applied surfaces should be protected against fast drying for minimum 48 hours. To avoid it, keeping the surface humid by using wide folios and humid jute sacks would be enough.

#### COVERAGE

Approx. 20 kg/m<sup>2</sup> for 10 mm thickness.  
The coverage amounts are theoretical and it is recommended to do coverage-controlled sample application before treatment.

#### PACKAGING

In 25 kg craft bags, 64 bags in 1 palette (1600 kg/palette)

#### STORAGE

- Dry mortar bags should be protected from water, frost and adverse air conditions.
- They should be kept dry and cool on wooden pallets at between +10°C and +25°C in moisture free conditions.
- The torn and opened drums should be closed immediately and consumed first.
- Maximum 8 bags are stacked on each other.
- Shelf life is maximum 12 months conditional to complying with the abovementioned storage conditions.

#### HEALTH AND SAFETY INFORMATION

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Safety Data Sheet.



#### BOSTIK SMART SUPPORT

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