

TECHNICAL DATA SHEET

# HERITAGE MORTAR

## A waterproof cementitious repair mortar & render coat

### DESCRIPTION

Rockbond Heritage Mortar (RB1.18) is a high-adhesion waterproof mortar/render that has been specially designed for the strengthening and rendering of heritage buildings. Heritage Mortar provides, a breathable, but waterproof rendered finish to the external/internal walls of brick, block and aged concrete structures. It can even be pump/spray applied where large volumes are required. For earthquake strengthening projects, Heritage Mortar is used in-conjunction with 13.50 Heritage Grid AR Glass reinforcing mesh to strengthen brick & block masonry structures.



## SPECIAL PROPERTIES

- Single component mix - just add water.
- Can be pumped/sprayed or hand placed
- High adhesion >2MPa
- High flexibility
- Waterproof from time of initial set
- Ideal for repairs to older, lower strength concrete.
- Increases shear/tensile strength of walls when used in combo with Heritage Grid AR Glass Mesh.
- Can be applied up to 30mm thick.
- Suitable for potable water applications
- Non-toxic

## USES

- Earthquake strengthening of brick and block masonry structures, in conjunction with Heritage Grid AR Mesh.
- Bridge repairs
- External render for Heritage buildings.
- Projects that come into contact with water
- Heritage seawall repairs
- Heritage wharf repairs

## MIXING INSTRUCTIONS

Heritage Mortar (1.18) should be mixed thoroughly, and evenly with 135mls : 1kg of product with clean potable water to the consistency required for the particular work being carried out. Heritage Mortar should be mixed at a reasonable speed with an electric mixer for 1-2 minutes prior to applying. It is important to use a mixing paddle that does not entrain air.

The ambient temperature affects the curing time of Waterproof Mortar. It is best used in temperatures of between 5°C and 25°C . The water content will also affect the curing time. In warmer weather up to 2% more water can be added to make the mortar more pumpable and extend working time.

## PACKAGING

The product is packaged in 25kg bags and has a shelf life of 12 months.

## TECHNICAL DATA

|                                 |                                |
|---------------------------------|--------------------------------|
| Consistency:                    | Powder                         |
| Colour:                         | Grey                           |
| Compressive Strength:           | 27MPa/28 days (22.5MPa/7 days) |
| Flexural Strength:              | >8MPa after 28 days            |
| Adhesion (concrete substrate):  | >2MPa                          |
| Maximum size of aggregate:      | 2.11mm                         |
| Bulk density:                   | 2,120 kg/m <sup>3</sup>        |
| Chloride ion content:           | ≤0.05%                         |
| Maximum application thickness:  | 30mm                           |
| 30mm Application Temperature:   | +5degC to +35degC              |
| Pot life of mix:                | 30 minutes (temp dependent)    |
| Meets NZ Standards<br>4210:1989 |                                |
| Yield per 25kg at 13.5% water:  | 12 litres                      |

**Note:** For applications where a fine aggregate is required (<1mm), use 1.18F (Fine), which is a finer version of 1.18 with the same performance.

## APPLICATION PROCEDURE

### Heritage Mortar/Heritage Grid Application:

If the surface is uneven or rough, level it off with Heritage Mortar prior to applying first layer of mortar below the Heritage Grid mesh. Leave it to harden for at least 12 hours.

Apply an even layer of Heritage Mortar at approximately 6 mm thick with a metal trowel. While the mortar is still wet, place the Heritage Grid mesh on the surface and press it into the mortar with the trowel so that the top of the mesh is level with the surface of the mortar.

**Note:** Overlap each length of Heritage Grid Mesh by at least 100mm at any edge where the product joins.

Apply a second layer of the Heritage Mortar at approximately 6 mm thick, ensuring that the Heritage Grid mesh is completely covered. Finish the surface with a smoothing trowel to the finish required. If required, Heritage Mortar can be re-trowelled after 1 hour with a wet trowel to produce an extremely smooth finish.

### Render Application:

Break out all spalled, loose and contaminated concrete until good, sound concrete is exposed. Thoroughly and completely abrade the concrete to produce a sound substrate with a good mechanical key.

Remove all corrosion and contamination from the surface of the steel. Severely corroded reinforcement should be cut back and replaced.

Immediately before the application of the repair material, thoroughly wash and soak the concrete substrate. Remove any standing water and keep the substrate free of contamination. In situations where there is a high degree of chemical attack apply Rockbond Primer for Steel (RB 1.00) to the steel reinforcing.

To maximise the contact of the repair system to the concrete, and to reduce peeling and voids at the bond line, use a gloved hand to form a contact coat: rub the latex/mortar mixture completely over and well into the concrete substrate to be repaired.

Compact and build up the mortar to the profile of the surrounding concrete, or the desired thickness, and produce a cover of not less than 20mm in front of the steel reinforcing. Use a steel float to close and seal the pores, and produce an attractive finish.

## HEALTH AND SAFETY

1.18 Heritage Mortar is non toxic and safe to use. However, use the same precautions as with any cementitious products, wear goggles, protective clothing and a dust mask while mixing and applying the material.

## TECHNICAL INFORMATION

For further technical assistance on this product, please talk to our Technical Sales Team on +64 4 568 5401