

Description

rbs Cosmetic Mortar is a fast setting cementitious repair mortar for rapid colour matching repairs to in-situ and pre-cast concrete.

Advantages

- Colour matched to blend in with typical concrete colour.
- Part packs can be mixed and just sufficient material as needed for the repair can be mixed with water onsite.
- Can be bulked out with aggregate for economy in deeper sections and to help achieve a texture.
- Rapid cure time enables fast turnaround.
- Shrink compensated.
- Waterproof.

Directions For Use

Substrate preparation - The substrate must be sound and free from dust, oil, grease, or other contaminants and should be suitably textured to provide adequate mechanical key; this may be achieved by scabbling or needle gunning. Generally the area should be scabbled to a minimum depth of 5mm to avoid feather edging.

Priming - The prepared substrate must be thoroughly saturated with clean water for several hours, the duration depending upon the amount of suction in the concrete. All standing water should be removed immediately prior to the application of rbs Cosmetic Mortar, leaving the surface wet. Due to its high polymer content a separate primer is not required.

Mixing - It is recommended that rbs Cosmetic Mortar is mechanically mixed by forced action pan mixer adding the powder to the water and mixing until homogeneous; care must be taken to avoid over-mixing since undue air entrainment will reduce the properties of the material. Alternatively, for a single pack application mixing with a suitable slow speed rotary drill fitted with a paddle attachment, such as EPI MR3, is satisfactory. Mix rbs Cosmetic Mortar with clean water in the ratio of 12% by weight or 5 – 6 parts to 1 water by volume. Mix only sufficient material for use within the working life of the material. Adding powder to water ensures easy mixing of small quantities to produce a smooth mortar consistency. Do not attempt to re-mix mortars by the addition of more water after the initial mixing process is completed. The mix remains workable for 5-10 minutes, depending on conditions. For repair sections thicker than 25mm it is possible to mix additional

aggregate with the rbs Cosmetic Mortar. The addition of aggregates will give economy without affecting the monolithic state of the repair.

Application - The mixed rbs Cosmetic Mortar must be applied by trowel whilst the existing concrete is still wet, working it firmly into place and ensuring any exposed steel is covered. Allow to stiffen for 4-5 minutes (dependent upon temperature and water content) before working the surface with a clean, damp steel trowel which enables the repair to be trimmed, arised cut and a final profile of a high quality achieved. Texture can also be obtained with either a wooden or polyurethane float. Do not "wet down" the patch repair during this period. For larger repairs (above 25mm), use the layer technique (25mm maximum per layer) to minimise exotherm. Score the surface of each layer lightly and allow to cure for 25-30 minutes before lightly damping down and applying subsequent layers.

N.B. In common with other cement based materials, rbs Cosmetic Mortar should not be applied at temperatures below 5°C or if there is danger of frost. In addition, the early strength development will be substantially reduced at low ambient temperatures.

Curing - Normal concreting procedures must be adhered to. Protect from strong sunlight and drying winds with rbs Greencure WB, polythene sheeting, damp hessian or similar.

Cleaning - Tools should be cleaned immediately after use with water.

Packaging

rbs Cosmetic Mortar comes in a pack size of 7.5kg (4.0 litres yield).

Storage

rbs Cosmetic Mortar should be stored in dry, cool, frost free conditions. Under such conditions the shelf life will be at least 12 months.

Health & Safety

When working with rbs Cosmetic Mortar suitable protective clothing, eye/face protection and gloves should be worn. Areas where this product is being applied must be well ventilated. For further health and safety information, please refer to the relevant Safety Data Sheet.

Technical Data

Property	Standard	Typical Result
Compressive Strength Development @ 20°C.	EN 12190	2 hours - 15 MPa 24 hours - 20 MPa 7 days - 28 MPa 28 days - 41 MPa
Adhesive Bond	EN 1542	1.2 MPa
Flexural Strength	EN 196-1	6.5 MPa
Tensile Strength	BS 6319: 7	2.7 MPa
Coefficient of Thermal Expansion	BS EN 1770	1.67 x 10 ⁻⁵ °C ⁻¹
Water Permeability	BS 1881: Part 5	10 mins Zero 2 hours Zero
Mixed Density		2100 kg/m ³
Min Application Thickness Max Application Thickness		5mm 25mm per layer
Min Application Temperature Max Application Temperature		5°C 35°C
Working Life (approx.)		5 - 10 minutes at 20°C
Reaction to Fire	EN 13501-1	Very good

The properties given above are obtained from laboratory tests: results obtained from on-site testing may vary according to site conditions.

Important Note

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company.

It is the responsibility of the customer to satisfy themselves that each product is fit for the purpose for which they intend to use it. Ensure that the actual conditions of use are suitable, and that in the light of our continual research and development programme, the information relating to each product has not been superseded.

The information given on this sheet is, to the best of our knowledge, true and accurate. No guarantee of the results implied, or any loss or damage arising out of this material, however, are possible as the conditions of application are beyond our control. This is not withstanding any liability arising from the Consumer Protection Act 1987 and the Health & Safety at Work Act. Health and Safety data is available on this product and should be referred to prior to its use

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For more information on the Resapol Foundation, please visit our website at www.resapol.com.

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