

# ROCKBOND SCP LTD

## FORMULATORS, MANUFACTURERS AND CONSULTANTS OF SPECIAL CONCRETE PRODUCTS

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### ROCKBOND TANKING MIX RENDER AND GROUT

#### DESCRIPTION:

ROCKBOND TANKING MIX RENDER (RB TMR) is a cementitious waterproofing compound containing a blend of special cement powders, finely graded sands, fibres, admixtures and water proofing agents. When the powder is mixed with water, a grey, non flow mortar is produced which when applied to brick, masonry or concrete as a render, provides an effective impermeable barrier to the passage of moisture, water and dissolved substances. ROCKBOND TANKING MIX GROUT (RB TMG) is used in situations where a flowing waterproofing material is required. The powders are ready to use, are packaged in 25kg moisture proof, durable bags and have a shelf life of 5 years.

#### SPECIAL PROPERTIES:

- \* Portland cement based, polymer modified, microsilica enhanced and fibre reinforced.
- \* The mortar is thixotropic, cohesive, set accelerated and shrinkage compensated.
- \* The grout is flowing, pumpable, will not segregate or bleed at the recommended water content, will penetrate into confined spaces, cracked and damaged brick and concrete surfaces.
- \* Tanking mix materials produce exceptionally dense, impermeable and durable products.
- \* Tanking mix renders and grouts are damp-proof, moisture proof, waterproof and weatherproof.
- \* Can be applied inside or out, above or below ground, damp side or dry side.
- \* The render produces an aesthetically pleasing smooth decorative finish to unsightly surfaces.
- \* High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

#### USES:

- + To cover and waterproof brick, blocks, mortar, masonry, stone, render, cement and concrete.
- + To waterproof brick and concrete foundations, underground structures, cavities, retaining walls, linings, cellars and tunnels.
- + To consolidate and seal cracks and voids in weak and porous bricks, masonry and concrete.
- + To protect brick and masonry from extreme and adverse weather conditions, freeze-thaw cycles and chemical attack.
- + To protect reinforced concrete against de-icing salts, aqueous solutions, carbonation, acid gases, spalling and corrosion.
- + Repair and seal water retaining structures, reservoirs, culverts, tanks, pools, pipes and sewers.

#### MIXING INSTRUCTIONS:

ROCKBOND TANKING MIX RENDER powder is mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), a pneumatic or electric power tool (1kW) and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC). Use a ROCKBOND FORCED ACTION PAN MIXER (RB FAPM) to mix larger amounts of material.

Add 4.50 litres of water to the container or mixer.  
Pour 25kg of powder onto the water while mixing.  
After all the powder has been added, mix for 30 seconds.  
The tanking mix is now ready for use.

Alternatively, small amounts of the material can be prepared by slowly adding the powder to a quantity of water and mixing to the required consistency.

## ROCKBOND TANKING MIX RENDER AND GROUT, MIXING INSTRUCTIONS CONTINUED...

ROCKBOND TANKING MIX GROUT is mixed with water at 16% water content: equivalent to 4 litres of water per 25kg bag.

### APPLICATION PROCEDURE:

Thoroughly and completely abrade concrete or brick surfaces to produce a sound substrate with a good mechanical key. All traces of contamination must be removed. A strong substrate free of all friable material will enhance a good bond.

Weak or friable mortar in the joints between bricks and blocks should be raked out to a depth of not less than 12.5mm.

Use ROCKBOND PRIMER LATEX (RB PL) to penetrate, consolidate, strengthen and seal the substrate which should be dry. With a brush or a soft broom, brush the latex into the joints and over the surface. Work the latex well into the substrate. Let the latex dry out, usually 15 to 20 minutes depending on conditions.

Apply a second coat of the Primer Latex to the first coat. Normally, 1 litre of Primer Latex will treat 4m<sup>2</sup> of brick surface or 5m<sup>2</sup> of concrete surface with two coats of latex. Let the latex dry out.

Use ROCKBOND FASTROCK MORTAR (RB FRM) to re-point any brickwork, fill any ruts and depressions, make good any defective brick or concrete surfaces and level the surface. Let the mortar set, normally at about 1 hour depending on conditions.

For the application of the TANKING MIX RENDER: use the mortar to form a contact coat: with a gloved hand rub, work and compact small amounts of the mortar onto and into the substrate to be rendered. Apply the material in such a way as to reduce voids at the bondline and to maximize complete and intimate contact of the tanking mix render with the substrate. Rub it in to effect a good mechanical key! 100% contact is 100% bond. Mix further quantities of the tanking mix with water, apply the mix to the contact coat and build up the mortar to produce a cover of not less than 10mm.

**1 x 25kg bag covers 1.333m<sup>2</sup> of substrate surface at a depth of 10mm**

For the application of the TANKING MIX GROUT: shutters must be impermeable to the passage of water, and strong enough to contain and support the grout. Use ROCKBOND CURE (RB C) to seal and waterproof porous shutters.

Sufficient hydrostatic head must be given to the grout to enable it to flow completely through the void to be filled. Make sure that sufficient material is mixed and available so that the operation can be performed in one continuous pour.

Beware! The grout can be too flowing for a particular application at 4.00 litres water per 25kg bag. If so, reduce the water content to 3.50 litres of water per 25kg bag.

Once the tanking materials are in place and have gained sufficient strength, apply ROCKBOND CURE at the rate of 10m<sup>2</sup>/litre. During adverse curing conditions, repeat the procedure. Do not apply Rockbond Cure if you wish to overcoat the render or grout with paint or plaster.

### HEALTH, SAFETY AND STORAGE:

ROCKBOND TANKING MIX powders are non toxic and safe to use. However, use the same precautions as with any cementitious product: wear goggles, protective clothing and a dust mask while mixing and applying the material. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

ROCKBOND TANKING MIX RENDER AND GROUT CONTINUED...

TECHNICAL DATA:

ROCKBOND TANKING MIX RENDER (RB TMR),  
TYPICAL DATA at 18% water/powder ratio at 20°C

CONSISTENCY: Good Mortar  
CONSISTENCY LIFE: 30 minutes  
DENSITY: 1990kg/m<sup>3</sup>

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
10	25	40	MPa

YIELD: 25kg of powder yields 13.333 litres of Tanking Mix Render.  
25kg of powder treats 1.333m<sup>2</sup> of substrate at 10mm cover.  
1m<sup>3</sup> of Tanking Mix Render requires 1.875 tonnes of powder

ROCKBOND TANKING MIX GROUT (RB TMG),  
TYPICAL DATA at 16% water/powder ratio at 20°C

CONSISTENCY: Flowing Grout  
CONSISTENCY LIFE: 30 minutes  
DENSITY: 1950kg/m<sup>3</sup>

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
10	25	45	MPa

YIELD: 25kg of powder yields 14.00 litres of Tanking Mix Grout  
25kg of powder treats 1.400m<sup>2</sup> of substrate at 10mm cover.  
1m<sup>3</sup> of Tanking Mix Grout requires 1.800 tonnes of powder

FURTHER INFORMATION:

Should you require further information on this product, or details of other ROCKBOND SPECIAL CONCRETE PRODUCTS, then please do contact our Technical Department:

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IMPORTANT NOTE:

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