

TECHNICAL DATA SHEET

DRY-SHOT MORTAR

Pre-mixed, ready-to-use cementitious mortar powder

DESCRIPTION

Rockbond Dry-Shot Mortar (RB1.11) powder is a pre-mixed, ready to use, cementitious mortar powder. The compound contains an unique blend of fine cement powders, graded sands, alkali resistant fibres, acrylic polymer powders, chloride free accelerators and admixtures. The powder, when sprayed with water, produces a non slump, non shrink mortar which quickly hardens to provide a material that is strong, dense and with very low permeability.



SPECIAL PROPERTIES

- Formulated to the Dept of Transport Specification BD 27/86 and the Specification for Highway Works.
- Specially designed to produce an exceptionally dense, impermeable and durable material.
- Portland cement based, fibre reinforced, acrylic resin modified, and microsilica enhanced.
- Contains shrinkage compensated and low alkali cements, equivalent Na₂O below 5kg/m³.
- Contains sand safe from Alkali Silica Reaction (ASR).
- High build material and will not slump or settle: 70mm sections can applied in one pass.
- Quickly and easily worked to produce a smooth and attractive finish.
- Weatherproof. Non porous with very low permeability. Contains no chlorides, ferrous metal or other deleterious substances.
- High yielding, economical, non-flammable, non-toxic, odour free, user friendly and safe to use.

USES

- Large scale repairs and coatings to concrete, render, mortar, masonry, brick and stone.
- Quick and rapid repairs to concrete structures, mass concrete and sea defences.
- To consolidate, seal and strengthen rock faces, cliffs, railway cuttings and embankments.
- To waterproof concrete structures, basements, walls, tanks, dams and reservoirs.
- To repair concrete in mechanically aggressive environments such as marine defences, tunnels, culverts and moving water situations.
- To protect reinforced concrete from chemical attack, chloride attack on highway structures, in marine locations, and chemically aggressive environments.
- As a coating to extend the cover on existing concrete structures.

MIXING INSTRUCTIONS

Rockbond Dry-Spot Mortar powder is dry sprayed. However small quantities of the powder can be mixed with water.

- Pour a quantity of water into the container or mixer.
- Add and mix the powder with water until the required consistency is obtained.
- After all the powder has been added, mix for 30 seconds
- The mortar now is ready for use.

HEALTH AND SAFETY

Rockbond Dry-Shot Mortar is 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.

APPLICATION PROCEDURE

For the repair of corroded reinforced concrete, correct and proper preparation of the concrete substrate and steel reinforcing is essential to execute an effective repair.

Break out all spalled, loose and contaminated concrete. Remove the concrete at least 20mm from behind the steel reinforcing, and extend the perimeter of the repair to at least 50mm beyond the point at which the corrosion is taking place.

Thoroughly and completely abrade the concrete to produce a sound substrate with a good mechanical key. Keep concrete surfaces free from contamination.

Remove all corrosion from the surface of the steel. Severely corroded reinforcement should be cut back and replaced. In situations where there is a high degree of chemical attack, apply RB 1.00 Primer for Steel.

On weak, friable or porous substrates, use RB 7.15 Latex Concentrate to penetrate, consolidate, strengthen and seal the surface. With a brush or a soft broom, brush the latex completely and evenly over the surface. Work the latex well into the substrate. Pay particular attention to the edges of the repair, and brush the liquid at least 25mm beyond the repair area. Brush out any puddles, and let the latex dry out, usually 15 to 30 minutes depending on conditions.

To prime the substrate and to enhance the bond, apply a second coat of the latex to the first coat. Normally, 1 litre of the Latex Concentrate will treat 5m² of concrete surface with a two coat application. Substrate surfaces without the use of the Latex should be wet.

Once the material is in place and has gained sufficient strength, apply RB 7.10 Slabcure at the rate of 7m²/litre. During adverse curing conditions, repeat the procedure.

During winter weather work, or when ambient temperatures are below 5°C, or if a rapid early strength development is required at 20°C, use Rockbond Dry-Shot Accelerated Mortar.

TECHNICAL DATA

Water/ Powder Ratio	12% at 20°C				
Consistency	Stiff Mortar				
Consistency Life	10 Minutes				
Density	2250kg/M3				
Minimum Compressive Strength @ 20°C	MPa				
	5	10	20	45	55
	Time				
	1hr	2hrs	1day	7days	28 days

Yield:

25kg of mortar powder yields 12L of Sprayed Mortar
25kg of mortar powder treats 1m² of concrete at 12mm cover.
1m³ of Sprayed Mortar requires 2.1 tonnes of mortar powder

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our Technical Sales Team: +64 4 568 5401