Ronacrete

Technical Data Sheet

Ronabond Bedding Mortar

Prepacked mortar for bedding and bonding brick slips

Certificate No. 90/2422

FEATURES

- √ **prepacked brick slip bedding mortar**
- √ **British Board of Agrément approved for bedding brick slips**
- √ **Waterproof and frostproof**
- √ **Excellent durability**
- √ **Monolithic adhesion**
- √ **High strength and waterproof**

SPECIFICATION CLAUSES

Bedding brick slips and copings and paviours
The bedding mortar shall be Ronabond Bedding Mortar by Ronacrete Ltd, telephone +44 (0) 1279 638700. The primer shall be Ronacrete Standard Primer. All materials to be applied in accordance with manufacturers instructions.

SUMMARY APPLICATION PROCEDURE

RONABOND BEDDING MORTAR

1. prepare surface
2. apply primer to substrate and back of brick slip/coping
3. mix and apply mortar
4. bed slip/coping in mortar
5. support temporarily as necessary
6. rake out joints and re-point as necessary

Description
Ronabond Bedding Mortar is used to bond brick slips, copings and other components to concrete and building surfaces. The cured mortar has high physical strength, is waterproof and frost proof and will not break down through frost action.

Ronacrete Standard Primer is used to provide monolithic adhesion between the mortar, the slip and the substrate. Careful surface preparation is essential to ensure adhesion, long term durability and performance.

INSTRUCTIONS FOR USE

1. The surface to receive the slip must be mechanically prepared to ensure it is structurally sound and stable and strong enough to support the weight of the slip and the mortar.
2. The surface must be mechanically abraded by scabbling, needle gunning or similar methods to provide a strong, laitence free profile. Any coatings must be removed back to clean, sound concrete. Clean the surface to remove dust and debris.
3. The back of the brick slip must be cleaned to remove loose material and any contamination.
4. Damp the concrete face and the back of the slip with clean water; remove excess water.
5. Apply a single coat of Ronacrete Standard Primer to the damp surfaces (concrete and back of slip); the primer must remain wet or tacky and must not dry before the mortar is applied.
6. Mix Ronabond Bedding Mortar as described (see Mixing).
7. Trowel the mortar on to the back of the slip, or render on to the concrete, to a bed depth of 6-12mm (typically).
8. Place the slip in to the mortar, position and brace. Ensure total contact between the slip, mortar and concrete.
9. Support the slip as necessary until the mortar has hardened sufficiently.
10. Avoid staining the face of slip with the primer or mortar.

Coverage
One 25kg pack of Ronabond Bedding Mortar will fix 70 slips (65mm x 225mm) using a 10mm bed. One 2kg pack of Ronacrete Standard Primer is sufficient for 150 slips (concrete surface and slip).

GENERAL INSTRUCTIONS FOR USE

Mixing Ronabond Bedding Mortar
Ronabond Bedding Mortar provides optimum performance when machine mixed in a forced action mixer (eg. Creteangle pan mixer). Do not use a free fall mixer. Mix the dry components and when evenly dispersed add the minimum amount of the supplied gauging liquid to provide sufficient workability for compaction and surface finish.

Working Temperatures
Ronabond Bedding Mortar can be used in most weather conditions and in a wide temperature range, typically from +3°C to 25°C and above. Note that at high ambient temperatures the working time of the mix will be reduced; it will be increased at lower temperatures. Ideally store materials between 10°C and 20°C before use.

Health and Safety
Ronabond Bedding Mortar is non-hazardous although protective clothing such as goggles, overalls and gloves is recommended to prevent any effect from prolonged skin contact, inhalation or ingestion.

In the event of skin contact, wash with soap and water. Seek medical advice if irritation or pain occurs. In the event of eye contact, irrigate with plenty of clean water and seek immediate medical advice. In the event of ingestion, do not induce vomiting. Seek immediate medical advice.

Storage
Ronabond Bedding Mortar should be stored unopened between 5°C and 25°C in dry warehouse conditions and out of direct sunlight. In these conditions shelf life is approximately 9 months.

Technical and Test Data
Note that all quoted data is based on laboratory tests conducted at 20°C. Cubes, tested at 28 days, are 100mm and air cured. Results shown are MAXIMUM laboratory strengths achieved by casting and curing cubes in ideal working conditions; site strengths will be lower.

Site Attendance
When on site Ronacrete representatives are able, if asked, to give a general indication of the correct method of installing a Ronacrete product. It is important to bear in mind that Ronacrete Ltd is a manufacturer and not an application contractor and it is therefore the responsibility of the contractor and his employer to ensure he is aware of and implements the correct practices and procedures to ensure the correct installation of the product and that liability for its correct installation lies with the contractor and not with Ronacrete Ltd.

Properties - Ronabond Bedding Mortar

Freeze/thaw cycle tests

Strength N/mm²	
Temperature range	-18°C/+20°C
Flexural strength Initial	11.6
Flexural strength after 120 cycles	11.0

Pull off tests

Strength N/mm²	Tensile Strength at failure	
	Calcium Silicate Bricks	Clay Bricks
Normal cure	1.05	1.55
Ca(OH)	0.50	1.07
Freeze/Thaw	0.71	1.03
Thermal Cycling	0.81	1.28

In no case did the brick/mortar or concrete/mortar bond fail.

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Yield and Coverage						
	pack size	packs required per m^3	yield per pack m^3	coverage per pack	use with Ronacrete Standard Primer	Typical min/max application depth per layer
Ronabond Bedding Mortar	25kg	90	0.011	$1m^2$ @ 11mm	yes	6mm/10mm
Ronacrete Standard Primer	2kg, 10kg	n/a	n/a	3-$4m^2$, 15-$20m^2$	n/a	n/a

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