permoseal

ALCOLIN RAPID SET MOSAIC MARBLE FIX

Description

ALCOLIN RAPID SET MOSAIC MARBLE FIX is a high strength, water resistant, rapid drying, shrinkage compensated, cement based adhesive specially formulated for interior/exterior wall and floor applications enabling installations to be grouted after 2½ hrs and permitting flooring systems to accept traffic 4 hours after application

Features & Benefits

- White – non staining – use as an adhesive and grout
- Multifunctional - can be used as an adhesive & grout for mosaics etc
- Rapid drying – sets in 4 hours – access to floor within a short period of time
- Shrinkage compensation – low shrinkage – no cracking or pulling away form substrates
- High strength - suitable for non porous tiles (porcelain), ideal for high traffic areas
- Water resistant – ideal for swimming pool mosaics
- Cement based - suitable for interior and exterior applications
- Good anti-slump properties – easily applied to vertical surfaces
- Good wet tack - holds tile instantly in place with no slip
- Good workability - easy to apply and spread

Applications

ALCOLIN RAPID SET MOSAIC MARBLE FIX is used for the fixing of light coloured porcelain tiles, mosaics, ceramic tiles, light coloured natural stone, marble, travertine, glass tiles, terrazzo, semi & vitrified tiles to cement render, screeds, concrete and primed fibre cement surfaces. It may also be used as both the grout and adhesive in certain instances i.e. mosaics in swimming pools, glass tiles etc

When used in conjunction with ALCOLIN Z101 RAPID SET FLOOR SCREED on flooring systems, it is possible for screeding and tiling to be completed within 8 hours. ALCOLIN RAPID SET MOSAIC MARBLE FIX is ideally suited for high traffic areas

Limitations

- Not suitable for butt joining tiles
- Not suitable for tiling over expansion joints
- Not suitable for tiling onto flexible surfaces

Safety instructions

ALCOLIN RAPID SET MOSAIC MARBLE FIX contains cement, which is alkaline and may cause skin irritation. Do not ingest. Keep away from children and pets. Do not empty into drains. Wear rubber gloves. Avoid contact with eyes. Allow any unused product to dry before disposing of the container. In the event of skin contamination, rinse thoroughly with cold water. Seek medical assistance if irritation or discomfort persists. Refer to our Material Safety Data Sheets for further toxicological information and comprehensive handling instructions

Directions for use

Surface preparation

- Site conditions should comply with the latest SABS Standards editions: SABS 021 (Code of Practice for the Waterproofing of Buildings including damp-proofing and vapour barrier installation), SANS 10109-2:2004 (Concrete Floors Part 2: Finishes to concrete floors), SABS 0107:1996 (Code of Practice for The design and installation of ceramic tiling)
- Surfaces must be dry, firm and clean, free of loose material, mould oil, grease, wax polish, organic growth and any moisture. Organic growth must be removed and the spores killed with an effective fungicide such as a household bleaching solution
- At least one of the surfaces should be absorbent i.e. back of the tile or the substrate
- **Bitumen waterproofing membranes** should be treated with at least a 3mm coating of ALCOLIN Z100 FLOOR SCREED/ALCOLIN Z101 RAPID SET FLOOR SCREED before applying adhesive
- **Cement-based plaster and screeds** must be at least two weeks old and concrete surfaces at least four weeks old to avoid excessive movement due to shrinkage
- **Gypsum plaster surfaces** The surface must be chipped to expose 80% of the substrate and primed with a coat of ALCOLIN PERMOBOND or scratch coat
- **Friable and chalking surfaces** need to be primed with a coat of ALCOLIN PERMOBOND, which must be brushed well into the substrate
- **Water sensitive timber based surfaces** should be sealed with the appropriate sealant e.g. polyurethane, prior to tiling
- **Painted surfaces** must be chipped thoroughly to expose 80% of the substrate and a priming coat of ALCOLIN PERMOBOND applied
- **Floor coverings and bitumen coated surfaces** (not waterproofing membranes) must be stripped clean and treated with ALCOLIN PERMOBOND or a scratch coat followed by screeding with ALCOLIN Z100 FLOOR SCREED/ALCOLIN Z101 RAPID SET FLOOR SCREED
- **Smooth surfaces** such as power floated and off shutter concrete, the laitance must be removed and a priming coat of ALCOLIN PERMOBOND or scratch coat applied
- **Ceramic tile surfaces and existing tiles** must be firmly in place. The surface should be primed with ALCOLIN PERMOBOND or scratch coat. Unsound or damaged surfaces must be chipped to expose 80% of the substrate and primed with a coat of ALCOLIN PERMOBOND or a scratch coat
- It is essential that suitable damp proof membranes be in place to prevent rising damp
- Under floor heating should be turned off for at least 48Hrs prior to and after application
- Particular attention must be paid to the Tile Manufacturer's instructions. i.e. any pre storage conditions prior to installing
- For ALCOLIN PERMOBOND, ALCOLIN Z100 FLOOR SCREED, ALCOLIN Z101 RAPID SET FLOOR SCREED or ALCOLIN TILE GROUT applications, refer to the relevant data sheets
- A scratch coat can be mixed as follows: premix 1 part cement: 3 part sand add diluted Permobond 1 part: 1 part water, until desired consistency is achieved

Mixing

- Gradually mix 20 kg of ALCOLIN RAPID SET MOSAIC MARBLE FIX to ± 5.5 litres of cold clean water (or 5kg to ±1.5 litres of cold clean water)
- Mix to a smooth paste
- Allow mix to stand and gel for 5 minutes
- Remix before use. DO NOT ADD MORE WATER
- Do not mix more adhesive than can be used within ± 30 minutes
- **Note:** For enhanced adhesion, flexural strength and water resistance in particularly difficult conditions i.e. permanently wet or high traffic areas, replace the water addition rate for ALCOLIN RAPID SET MOSAIC MARBLE FIX with ALCOLIN PERMOBOND

Application

- Minimum grouting joint width for walls are to be 2mm and for floors 3mm. Do not butt joint tiles
- For **mosaic tiles** (adhesive & grout method) use a 6x6mm notched trowel, bed mosaics firmly into wet adhesive and remove paper covering approximately 60 minutes after application
- Use a 6mm notched trowel for wall tiles and apply to a thickness of 3mm, if applied as a grout and adhesive to walls or floors a 10mm notched trowel to a thickness of 3mm
- Heavily lugged, grooved or dovetailed tiles must be buttered with adhesive before bedding into the trowelled adhesive in order to prevent any voids
- If the tiles do not have spacer lugs, plastic spacers may be inserted between the tiles to help maintain straight grout lines. Remove these after placing the tile, before they become firmly set in the adhesive
- Do not spread more adhesive than can be tiled in 15 minutes
- Press tiles firmly into wet adhesive with a twisting action (before surface drying/skinning occurs)
- Use a "RUBBER MALLET" to bed large or heavy tiles
- Occasionally lift a tile to check that full contact is being made between the tile and the adhesive
- USE ONLY DRY TILES
- Clean excess adhesive off tile surface, grout joints and tools while still wet

Expansion joints

- All expansion and movement joints to extend through adhesive bed and tiling. Do not tile over existing structural movement joints
- Movement joints should be located in both directions at maximum 5m for interior applications and every 3m for exterior applications
- Movement joints should also be located in all horizontal and vertical corners, against obstructions fixed to the structural background and over all discontinuities in building materials, e.g. at interfaces of concrete and brickwork
- In addition, perimeter joints should be located around any fixtures protruding through the tiled surface. See SABS 0107:1996 (Code of practice for the design and installation of ceramic tiling)

Cleaning

Tools can be cleaned with water and soap when adhesive is still wet

Grouting

Ensure that the joints are free of tile adhesive residue and any foreign matter. Allow a minimum of 2 ½ hours before grouting. Grout with ALCOLIN TILE GROUT

Storage stability

ALCOLIN RAPID SET MOSAIC MARBLE FIX must be kept in normal, dry conditions and protected from damp. The product has a shelf life of approximately 9 months if stored, as described above, in its original sealed packaging

Product packaging

5kg pocket
20kg pocket

Product data

i. Physical data

Moisture resistance	Good
Moisture resistance with ALCOLIN PERMOBOND	Very good
Temperature	Resistant up to 100ºC

ii. Application data

Initial setting time	± 2½ hours at 25ºC and 50% humidity
Final setting time	± 4 hours at 25ºC and 50% humidity
Correction time	± 10 minutes at 25ºC and 50% humidity
Open time	± 15 minutes at 25ºC and 50% humidity
Pot life	± 30 minutes at 25ºC and 50% humidity
Pot life with Alcolin Permobond	± 30 minutes
Grouting	After 2½ hours
Mixed weight	±1.8 kg per litre
Coverage / kg	± 0.4m²/kg using 6mm notched trowel (8 m² / 20kg pocket) ± 0.24m²/kg using 10mm notched trowel (4.8m² /20kg pocket)
Tools	Walls - 6mm X 6mm tooth gap at 6mm intervals; (Heavy or large tiles - use floor trowel) Floors - 10mm X 10mm tooth gap at 6mm intervals

The above information is only offered, as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for problems caused by the use and/or application of this product.

Head Office: +27(0)21 555 7400
Toll-Free No: 0800 222 400
Beverley Close, Montague Gardens, 7441
PO Box 37008, Chempet, 7442
www.alcolin.com