permoseal

ALCOLIN PORCELAIN FIX 6HRS GREY

Description

ALCOLIN PORCELAIN FIX 6HRS GREY is high strength shrinkage compensated cement based tile adhesive which sets in 6 hours. It has been specially formulated for heavy duty interior/exterior wall and floor applications such as the fixing of normal ceramic tiles as well as tiles with difficult backings e.g. low porosity surfaces such as porcelain, granite & vitrified tiles

Features & Benefits

- Sets in 6 hours – access to floor within a short period of time
- High strength – ideal for high traffic areas, suitable for non porous tiles
- Shrinkage compensated – no cracking or pulling away from substrates
- Good anti-slump properties – easily applied to vertical surfaces
- Good wet tack – holds tile instantly in place with no slip
- Good workability – easy to spread
- Long open time – long working time available

Applications

ALCOLIN PORCELAIN FIX 6HRS GREY is formulated for interior/exterior wall and floor applications where it is used for fixing of porcelain tiles, mosaics, ceramic tiles, dark stone, terrazzo, semi & vitrified tiles, brick and clay tiles to cement render, screeds, concrete and primed fibre cement surfaces. ALCOLIN PORCELAIN FIX 6HRS GREY is ideally suited for heavy duty applications and for high traffic areas

Limitations

- Not suitable for bonding porous light coloured natural stone, marble or travertine as it may cause discolouration. ALCOLIN RAPID SET MOSAIC MARBLE FIX TILE ADHESIVE has been specifically developed for this type of application
- Do not tile over expansion joints
- Do not butt joint tiles
- Not suitable for tiling onto flexible surfaces

Safety instructions

ALCOLIN PORCELAIN FIX 6HRS 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

i. 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 application instructions, 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

ii. Mixing

1. Add ± 3 volumes of ALCOLIN PORCELAIN FIX 6HRS GREY to 1 volume of clean cold water or gradually mix 20 kg of ALCOLIN PORCELAIN FIX 6HRS to ± 4.5 liters of cold clean water
2. Mix to a smooth paste
3. Allow mix to gel for 5 minutes
4. Remix before use DO NOT ADD MORE WATER
5. 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 PORCELAIN FIX 6HRS GREY with ALCOLIN PERMOBOND diluted 1 part Permobond with 3 part water

ii. Application

1. Minimum grouting joint width for walls is to be 2mm and for floors 3mm. Do not butt joint tiles
2. Use a 6mm notched trowel for wall tiles, and a 10mm notched trowel for floor tiles, and apply to a thickness of 3mm on walls, and 6mm on floors. As a guideline, it is estimated that the coverage is 0,3 m² per 1 kg using a 6mm x 6mm notched trowel at 6 mm intervals. The estimated coverage depend on the nature of the surface to be tiled
3. Heavily lugged, grooved or dovetailed tiles must be buttered with adhesive before bedding into the troweled adhesive in order to prevent any voids
4. 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
5. Do not spread more adhesive than can be tiled in 25 minutes
6. Press tiles firmly into wet adhesive with a twisting action (before surface drying/skinning occurs)
7. Use a "RUBBER MALLET" to bed large or heavy tiles
8. Occasionally lift a tile to check that full contact is being made between the tile and the adhesive
9. USE ONLY DRY TILES
10. Clean excess adhesive off tile surface, grout joints and tools while still wet

iv. Expansion joints

1. All expansion and movement joints to extend through adhesive bed and tiling. Do not tile over existing structural movement joints
2. Movement joints should be located in both directions at maximum 5 meter for interior applications and every 3 meters for exterior applications
3. 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
4. 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

iv. Grouting

Ensure that the joints are free of tile adhesive residue and any foreign matter. Allow a minimum of 5 hours before grouting. Grout with ALCOLIN TILE GROUT

Storage stability

ALCOLIN PORCELAIN FIX 6HRS 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 packaging

Product packaging

20kg pocket

Product data

i. Physical data

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

ii. Application data

Initial setting time	± 4 hours at 25ºC and 50% humidity
Final setting time	± 6 hours at 25ºC and 50% humidity
Correction time	± 10 minutes at 25ºC and 50% humidity
Open time	± 25 minutes at 25ºC and 50% humidity
Pot life	± 1½ hours at 25ºC and 50% humidity
Pot life with Permobond	± 1 hour
Grouting	After 4-5 hours
Mixed weight	±1.8 kg per litre
Coverage/20kg	± 0.3m²/kg using 6mm notched trowel (6m²/20kg pocket) ± 0.2m²/kg using 10mm notched trowel (4m²/20kg 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.

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