



ALCOLIN PERMO-KEY SLURRY KIT

Description

ALCOLIN PERMO-KEY SLURRY KIT is a two component system comprising of a modified cement powder and a latex emulsion that when mixed together forms an easy to apply highly water resistant, flexible, cementitious slurry coat which serves as an ideal primer to enhance adhesion between old and new cement surfaces. It is able to form a strong bond to the old surface while providing an excellent rough keying surface onto which the new surface can be bonded. For certain applications it may also be used as a moisture barrier.



Features & Benefits

- Provides a rough keying surface for improved adhesion.
- Excellent adhesion onto old cementitious surfaces.
- Very good water resistance.

Applications

As a primer to enhance adhesion between old and new cement surfaces. Ideal for use prior to screeding, tiling and applying finishing cement plasters. Suitable for interior and exterior applications such as bathrooms, showers, balconies, walkways, etc.

Adhesion

Excellent adhesion cement and concrete surfaces, porcelain tiles, mosaics, ceramic tiles, natural stone, marble, travertine, glass tiles, terrazzo, semi & vitrified tiles providing that the requirements are met in the surface preparation.

Limitations

- Do not apply externally when there is a risk of rain or frost within six hours after application.
- Not suitable as a final wearing surface.

Safety instructions

Alcolin Permo-key Slurry Kit is non-toxic, however the cement component is alkali in nature, and therefore it is advisable to wear rubber gloves in order to avoid direct contact with the skin. If product comes in to contact with skin or eyes, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. Keep out of reach of small children! Refer to our Safety Data Sheet for further toxicological information and comprehensive handling instructions.

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).
- Surfaces must be firm and free of dust, mould oil, grease, wax polish and organic growth
- **Cement-based plaster and screeds** must be at least 2 weeks old and concrete surfaces at least 4 weeks old to avoid excessive movement due to shrinkage.
- **Painted and Gypsum plastered surfaces** need to be chipped to remove 80% of the paint or gypsum.
- **Bitumen coated surfaces** (not damp proofing) must be chipped thoroughly to expose 80% of the substrate. **Ceramic tile surfaces** must be firm and clean. Unsound or damaged surfaces must be chipped to expose 80% of the substrate.
- **Smooth surfaces** such as power floated and off shutter concrete, any laitance must be removed by means of acid wash, followed by rinsing thoroughly with clean water.
- 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 48 hours prior to and after application.
- Expansion and movement joints should extend through the Permo-Key slurry and subsequent adhesive bed and tiling. Do not apply over existing structural movement joints.

Directions for use

As a primer

- Dampen the surface before applying slurry.
- Use a mechanical mixer such as a slow electric drill fitted with a suitable paddle.
- Add the liquid component to the bucket first and with continuous stirring slowly add the powder component.
- Mix thoroughly to a paintable consistency.
- Allow to stand for approximately 5 minutes.
- Remix immediately before use.
- If the mix is a little stiff, a small amount of water can be added to adjust the working properties.
- Use a broom, builder's block brush or large paint brush to apply approximately 2mm thick coating ensuring that full coverage of the substrate is always achieved.
- This coat is to be brushed in horizontal strokes and allowed to dry for approximately 12 hours before commencing with any tiling, plastering or screeding.

As a moisture barrier coat for example in bathrooms

- Apply as above for a primer but apply two coats, first coat to be brushed in horizontal strokes and allowed to dry for approximately 2 hours, followed by a second coat brushed in vertical strokes. Allow to dry for approximately 12 hours before commencing with any tiling, plastering or screeding.
- It is recommended that all horizontal and vertical interfaces i.e. Shower floor and wall, and in corners between two walls be reinforced with Alcolin slurry kit membrane to accommodate any variable movement between the interfaces. Apply 1st coat, soak membrane in slurry kit stick to surface, allow to dry paint 2nd coat allow to dry. The membrane is 200mm wide so the overlap on each side for the respective surfaces should be approx. 100mm

TECHNICAL DATA SHEET

Cleaning

Tools can be cleaned with water and soap when adhesive is still wet. Allow any unused product to dry before discarding in a suitable container.

Storage stability

Alcolin Permo-key Slurry Kit 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

15kg pack size (10kg Permokey and 5kg Latex-Key)

Product data

i. Physical data

	Permo-key	Latex key
Type	Cement mixture	Water based emulsion
Appearance	Course grey powder	White liquid
PH	~11	~8.0
Solids	100%	~38%
Viscosity	n/a	~30cps

ii. Application data

Final cure time	± 24 hours at 25°C and 50% humidity
Pot life	± 3 hours at 25°C and 50% humidity
Recoat time	12 hours between layers
Coverage	Approx 1.2m ² /kg depending on application and surface conditions

iii. Performance data for a three coat system*

Resistance to water pressure	± 20 atmospheres ± 4 atmospheres
- positive pressure	
- negative pressure	

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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