



ALCOLIN LATEX-KEY



Description

ALCOLIN LATEX-KEY is a concentrate cement additive that has been specially formulated to replace all or part of the water addition component of cement based products e.g. cement plaster, concrete, screeds, cement based tile adhesives, grouts etc. ALCOLIN LATEX-KEY not only greatly enhances the performance of cement based products but can also be used as a primer to improve the surface properties of the substrate such as screeds, plasters, renders etc. prior to tiling, screeding, repairing etc. Once cured the polymer is water and frost resistant.

Features & Benefits

- Improves overall performance of cement based products
- Greatly enhances the water resistance of cement based products
- Imparts flexibility to cement based products
- Mixes readily into cement based products
- It may be used as a primer to consolidate dusty, friable or crumbly cement surfaces
- Greater resistance to water soluble chemicals
- Improves substrate surfaces prior to bonding with tile adhesives or other coatings
- Versatile: Can be used for a variety of applications
- Greater frost resistance

Applications

ALCOLIN LATEX-KEY is used as an additive to cement based products (e.g. ceramic tile adhesives, grouts, mortars, and screeds) where extra performance may be required such as improved adhesion, enhanced water resistance and increased flexural strength.

Note: pigmented products such as grouts may dry a shade darker than those with a straight water addition.

Limitations

- Cannot be mixed with Cretestone or Gypsum based products.

Safety instructions

When working with ALCOLIN LATEX-KEY, it is advisable to wear gloves in order to avoid direct contact with the skin. Although the product is non-toxic, safe handling practices should still be implemented to avoid irritating sensitive skin. If product comes in contact with skin or eyes, flush thoroughly and immediately with water. If irritation continues, seek medical attention.

Keep ALCOLIN LATEX-KEY out of reach of children and pets!

Refer to our Material Safety Data Sheets for further toxicological information and comprehensive handling instructions.

Surface preparation

- Surfaces must be dry, firm and clean, free of loose material, mould oil, grease, wax polish, organic growth and any permanent moisture. Organic growth must be removed and the spores killed with an effective fungicide such as a household bleaching solution. Cut out and remove any hollow or loose portions in the substrate.
- Dampen all porous surfaces 1 hour prior to priming.
- **Cement based plaster and screeds** must be at least two weeks old and concrete surfaces at least four-six weeks old.
- **Gypsum and painted surfaces** must be chipped thoroughly to expose 80% of the substrate.
- **Ceramic tile surfaces and existing tiles** must be firmly in place, thoroughly cleaned and dried. If tiles are loose the surfaces must be chipped thoroughly to expose 80% of the substrate.
- **Floor coverings and bitumen surfaces** (not waterproofing membranes) must be stripped clean and chipped to expose 80% of the substrate.
- **Smooth surfaces** such as power floated and off shutter concrete, all traces laitance/efflorescence must be removed by means of scrubbing with a wire brush or dilute acid solution, rinse well with clean water, then allow to dry.

Directions for use

- **Mixing**

Shake Well Before Use

1. **For stabilising friable surfaces** prone to dusting: Brush undiluted ALCOLIN LATEX-KEY into the surface by means of a block brush. Allow to dry before tiling etc.
2. **As a primer** for Gypsum and Painted Surfaces, cement-based plaster & screed surfaces, floor coverings & bitumen surfaces, existing ceramic tiles and smooth surfaces prepared as directed above: Mix 2 volumes of ALCOLIN PERMOKEY to 1 volume of ALCOLIN LATEX-KEY.
3. **For cement rendering and screeding mortars** depending on the degree of water resistance and final strength required, use the following mixing ratios: for high strength and water resistance requirements for every 50kg cement used add 18L ALCOLIN LATEX-KEY. Where the water resistance and strength demands are less stringent use 9-10L of ALCOLIN LATEX-KEY for every 50kg of cement. The absolute minimal amount of water should be added to provide the necessary workability. For best results use these cement- latex blended mortars within 2hrs of mixing.
4. **As an additive to cement based products such as adhesives, grouts** etc.: ALCOLIN LATEX-KEY may be diluted with various water ratios depending on the requirements from 1:1, 1:2 to a max of 1 part concentrate to 3 parts water where the normal water addition rate for the product is replaced by the water-latex admixture.
5. **For the priming of flexible surfaces** such as sealed braced wood or steel etc.: mix 1 volume of ALCOLIN PERMOKEY to 1½ volumes of ALCOLIN LATEX-KEY.

TECHNICAL DATA SHEET

- **Application**

1. **When used as a primer/slurry mix prior to tiling etc:** Brush slurry mix (e.g. Alcolin LATEX-KEY/Permokey) into the base substrate by means of a block brush or hard bristle broom to a minimum thickness of 2mm and a maximum of 5mm (to avoid crazing of the surface). Allow to dry for 24 hrs before tiling etc.
2. **When used as a bond coat prior to screeding & rendering:** Apply the slurry mix as above and screed while the slurry coat is still wet/tacky.
3. **Water resistant rendering and screeding:** This operation requires 2 primer base coats and a final key coat mixed to strength as in point 2 of the mixing instructions prior to applying the screed or render. Apply the first coat with the block brush to a thickness of 2mm and allow to touch dry. Apply the 2nd coat at right angles to the first coat then allow to dry for 48 hrs. Once the sealing coats have dried completely, apply the 3rd coat of slurry mix/key coat. Prepare the render/screed as per mixing instruction point 3 and apply while the key coat is still tacky.

- **Curing**

1. Depends on the applications described above.

- **Coverage**

1. Depends on the application and the porosity of the substrate. As a rough guide 1L of ALCOLIN LATEX-KEY used undiluted on a surface of low porosity and as a single coat application should yield in excess of 5m².

Cleaning

- Tools can be cleaned with water.

Storage stability

ALCOLIN LATEX-KEY must be kept in an airtight container and stored at a moderate temperature and out of direct sunlight. The product has a shelf life of approximately 12 months if stored as described above in its original sealed moisture tight container.

Product packaging

- 5L plastic container

Product data

Colour	White
Consistency	Low viscosity liquid
Density (g/cm ³)	1.0

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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