

TECHNICAL DATA SHEET – TILE KEY

ISSUED 20TH FEBRUARY 2018



TILE KEY – LIQUID ADDITIVE

TECHNICAL DATA SHEET

PRODUCT DATA SHEET – TK/1955

FEBRUARY 2018



Product Description

Tile Key Latex Additive is an acrylic latex cement additive designed to increase water resistance, flexural & adhesion strengths of cement-based powders like tile adhesives, tile grouts, screeds & cement plasters. Tile Key is particularly recommended for the surface preparation of difficult to tile substrates or for heavy duty tiling applications that require exceptional adhesion and compressive strength

Features

- Waterproofs cement-based products
- Increases adhesion to difficult substrates
- Increases flexibility

TECHNICAL DATA

Liquid Type	SBR Latex
Colour	Milky
Packaging	1lt/5lt/20lt/200lt
Setting Type	N/A
Application Temperature	Range 10°C - 30°C
Solids	24% (+/- 1%)
Correction Time	N/A
Final Set	N/A
Viscosity	Water
S.G.	1.00
Flexibility	Increases flexibility of cement based tile adhesive & grout
Waterproofing	Waterproofs all cement based tile adhesives and tile grouts
Shelf Life	3months from date of manufacture

The information submitted on this data sheet is deemed correct. Tile Tak does not guarantee its accuracy but recommend that the user implements its own tests to determine suitability for the intended use. Tile Tak assumes no liability during all testing and use of this product. Tile Tak will replace any of the product proved to be defective. Tile Tak will assume no liability for any loss or damage relating to the use of this product. All products sold without any warranty

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MIXING INSTRUCTIONS

Follow the following mixing instructions:

- Tile Key is ready to use as is, and must not be diluted further.
- When Tile Key is being used as a primer on smooth or difficult substrates mix tile key with 42.5mPa OPC cement in the ratio of 1 part Tile Key to 2 parts 42.5mPa OPC by volume.
- As an additive to waterproof plasters, mortars & concrete replace 9lt of the water in the mix with 9lt Tile Key to 50kg 42.5mPa OPC cement.
- For hugh strength or hydrostatic pressure in plasters, mortar & concrete replace 18lt of water in the mix with 18lt of Tile Key to 50kg 42.5mPa OPC cement.

SURFACE PREPARATION

These recommendations are in accordance with the SABS standard SANS – The design & installation of ceramic tiles.

- For tiling on smooth surfaces such as off shutter concrete & existing ceramic tiles. The smooth surfaces must be acid washed using diluted hydrochloric acid to remove laitance & other surface contaminants. Rinse clean with clean water. Once the surface is dry prime the surface with a slurry consisting of 1 part Tile Key to 2 parts 42.5mPa OPC cement by volume, and allow the surface to dry.
- Painted surfaces, gypsum plasters and surfaces that have old bitument adhesive on must be lightly chipped to expose at least 80% of the substrate.. Dust the surface clean and prime the surface with a slurry consisting of 1 part Tile Key to 2 parts 42.5mPa OPC cement by volume, and allow the surface to dry before tiling.
- Wooden surfaces must be sanded to remove any surface contaminants like polish or sealers. Dust the surface off and prime the surface with a slurry consisting of 1 part Tile Key to 2 parts 42.5mPa OPC cement by volume, and allow the surface to dry.
- Highly porous substrates can negatively affect the bond strength of the tile adhesive. Check the porosity of the substrate by applying water onto the surface to check the rate of absorbtion of the water into the substrate. If the water is rapidly absorbed the surface is too porous to apply the tile adhesive onto and the surface must be primed using a slurry consisting of 1 part Tile Key to 2 parts 42.5mPa OPC cement by volume, and allow the surface to dry before tiling.

GENERAL APPLICATION INFORMATION

The following general information is very imformative:

- Ensure the back of all tiles are clean and free of dust and other surface contaminants.
- Do not butt joint tiles. Follow instructions given by the tile suppliers.
- Minimum recommended grout joint sizes is 2mm for wall tiles & 3mm for floor tiles – unless otherwise specified by the tile manufacturer.
- Bed tiles into wet tile adhesive in a twisting action to ensure adequate adhesive contact with the tile.
- Excessively hot or cold ambient conditions will affect the setting time of the tile adhesive. Excessively hot conditions will skin the tile adhesive affecting adhesive contact with the tile & excessively cold conditions will require a longer drying time of the tile adhesive.
- Remove all the adhesive from the grout joints as the installation progresses.
- Tiles with uneven backs (i.e. bowing of the tile) will need to be “buttered” before laying to ensure adequate tile adhesive contact.
- With heavy duty applications replace the water in the tile adhesive mix with Tile Bond.

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- It is extremely important to cater for expansion in tile panels. The inclusion of expansion joints is essential. Contact the Technical Department for further information.

APPLICATION

- Apply the Tile Key primer with a builders block brush ensuring tht a uniform coating of approximately 2mm is obtained.
- Allow the primer to fully dry before aplying any tile adhesive etc.
- When using the primer slurry as a waterproofing basecoat ensure the surface is covered 100% with the primer slurry. In adverse applications a 2nd coat would be recommended.

GENERAL INFORMATION

PACKAGING

- Tile Bond is supplied in 1lt/5lt/20lt & 200lt plastic containers.
- Store containers off the floor and our of direct sunlight.

SAFETY & WARNING

Precautions:

The following precautions must be adhered to:

- Ensure that the above instructions are adhered to at all times and do not adulterate the product in any way as this could result in tile failure.
- Rubber gloves should be used when applying Tile Tak Rapid Set 6hr Tile Adhesive. In the event of skin or eye irritation, rinse the affected area under cold water. Consult a medical doctor if the irritation persists.
- Keep the product away and out of reach from children and pets.
- Use a respirator when handling the product.
- This guideline only serves as a basic manual for the surface preparation product selection and installation procedure for this type of application. Each installation needs to be assessed and the products used, and the procedures followed should be in accordance with the SABS Code for the design and installation of ceramic tiles SABS 10107:2011

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