

Tilebond Flex

Rubber modified, flexible, off-white, cement based ceramic tile adhesive for use with Emer-Proof 680

USES

Tilebond Flex can be used both internal / external on walls and floors. It can be used to bond a variety of different tiles to a variety of different substrates. It is fast setting, meaning you can commence grouting 6 – 8 hours @ 20°C after completion of tiling.

ADVANTAGES

- Internal / external on wall and floor surfaces
- Used for fixing low porosity tiles
- Fast setting

DESCRIPTION

Tilebond Flex is a premium grade, rubber modified, flexible off white cement based tile adhesive. It is designed for bonding all types of ceramic, stone and mosaic tiles with the exception of light coloured and green marble, onto a variety of substrates like concrete, render, rendered brickwork, block work, Gyprock, plasterboard, fibre cement and particle board surfaces. Tilebond Flex can be used to fix tiles over most waterproofing membranes. However it is advisable to contact the manufacturer prior to commencing.

PROPERTIES

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| Appearance: | Off-white powder |
| Bulk Density: | 1.18 +/- 0.05 |
| Open Time: | Approx 20 minutes @ 20°C |
| Drying Time @ 20°C: | Approx 8 hours |
| Pot-life: | 45 minutes @20°C |

STANDARDS COMPLIANCE

Tilebond Flex has been tested in accordance with AS 2358-1990 and passes its requirements.

APPLICATION INSTRUCTIONS

- Once the surface has been appropriately prepared in accordance with Parchem's instructions, then apply the adhesive onto the substrate using a notched trowel
- For floor tiling use a 10 mm x 10 mm square notched trowel for tiles up to 300 mm x 300 mm. For tiles 300 mm x 300 mm and larger, use a 12 mm x 12 mm square notched trowel. For mosaic tiles use a 6 mm x 6 mm square notched trowel
- For wall tiling use a 6 mm x 6 mm square notched trowel for tiles up to 150 mm x 150 mm. For larger tiles than 150 mm x 150 mm use a 10 mm x 10 mm square notched trowel
- Tilebond Flex should be applied into the substrate at a rate of 1m² at a time. Application rates greater than this can result in the adhesive skinning
- Once the adhesive skins, do not lay tiles into it, but remove it and apply fresh adhesive
- When placing the tiles into the adhesive, press them in by using a twisting or sliding action. Ensure no voids occur and full coverage of adhesive is under the tiles
- For tiles with lugs, grooves or uneven backing, it may be required to butter the back of the tile with the adhesive in addition to trowelling the adhesive onto the substrate
- The final bed thickness of the adhesive should be at least 2 mm for wall tiling and 3 mm for floor tiling
- Once the tiling is completed do not disturb the tiled surface for at least 6 - 8 hours at 20°C
- Tilebond Flex can be directly adhered to Emer-Proof 680 or Emer-Proof 750 provided that the Emer-Proof 750 has been sand seeded and installed as per the current Technical Data Sheet

PREPARATION

- All concrete slabs must be allowed to cure for at least 7 days and have a wood float finish
- All rendered surfaces must be allowed to cure for at least 24 hours prior to commencing tiling
- The maximum variation in the plane of the concrete must not exceed 5 mm in 3 metres for floors and 4 mm in 2 metres for walls
- Steel trowelled finished concrete surfaces must be mechanically or chemically abraded prior to commencing tiling
- Ensure all surfaces are sound, dry and free from excessive movement, oil, grease, wax, curing compounds, release agents and any other loose materials
- It is recommended that all porous surfaces be primed with Nitobond AR diluted 1:2 with water (applied at 10m² per litre) to ensure a sound bond of the adhesive to the substrate
- Structural particle board used as a flooring material must be a minimum of 19 mm thick and fixed in accordance with the manufacturer's instructions and the relevant standards
- Fibre cement sheet when used as an underlay or wall / floor material must be a minimum of 6 mm in thickness. For heavy duty commercial applications it should be a minimum of 9 mm thick and all should be fixed in accordance with the manufacturer's instructions and the relevant standards
- Compressed fibre-cement sheets when used as a floor substrate must be 15 mm thick, and when used as a wall substrate must be 9 mm thick and must be installed in accordance with the manufacturer's instructions and the relevant standards
- Gypsum – plasterboard sheets when used as a wall substrate must be a minimum of 10 mm thick, and installed in accordance with the manufacturer's instructions and the relevant standards
- Ensure all surfaces are sound, dry and free from excessive movement, oil, dust, grease, wax, curing compounds, release agents and any other loose contaminating materials
- When applying the primer onto a floor surface it is recommended to firstly pour some primer in a section then spread the primer using a brush or roller. Then continue this method of application until the entire area is primed. Note: this method of application ensures a thorough coat of the primer on the surface
- Allow the primer to dry for approximately 30 – 40 minutes at 20°C prior to commencing tiling

EXPANSION / MOVEMENT JOINTS

Expansion / movement joints must be provided to allow for movement between adjacent building components. They should be as follows:

- Over existing joints in the substrate
- Where two different substrates meet eg. timber and concrete
- Around fixed elements in the floor e.g columns
- At internal vertical corners
- Around the perimeter of the floor
- In internal floors where any dimension exceeds 9 m or 6 m if subjected to sunlight
- In external floors where any dimension exceeds 4.5 m
- On wall surfaces at storey heights horizontally and approximately 3 – 4.5 m apart vertically. Ideally they should be located over movement joints in the structural background and at structural material changes eg the horizontal joint at the bottom of floor slabs, vertical joints at internal vertical corners, and at junctions with columns.

The above points are in accordance with AS4992.1-2003

- Movements joints should go right through the tile adhesive bed to the background and kept free from dirt and adhesive droppings. Movement joints must not be less than 6 mm and not wider than 10 mm. The movement joints must be filled with a flexible sealant like Emer-Seal PU40.

MIXING

- The mixing ratio of Tilebond Flex is 20 kg of powder to 6 litres of water
- Pour 6 litres of clean water into a drum and then gradually add the Tilebond Flex while mixing continuously until a smooth lump free mix is obtained. Always add powder to liquid
- Allow the mix to stand for 5 minutes, re-stir and then apply the adhesive onto the substrate

CLEANING

- Excess adhesive from the face of the tiles can be cleaned up with damp cloth while the adhesive is still wet
- Adhesive that has oozed out into the grout joint must be raked out with a knife / spatula etc
- Tools and other equipment can be cleaned up using water while the adhesive is still wet

GROUTING APPLICATION

Grouting applications can commence 6 – 8 hours after the completion of tiling

LIMITATIONS

- Do not apply Tilebond Flex in temperatures above 40°C and below 5°C
- Tilebond Flex cannot be used for fixing tiles directly onto timber floors
- Tilebond Flex cannot be used for fixing tiles in permanently immersed situations like swimming pools, spas etc and permanently damp concrete slabs like those present around the pool surrounds
- For applications not mentioned in this Technical Data Sheet, please contact your nearest Parchem sales branch

ESTIMATING

PACKAGING

Tilebond Flex: 20 kg bag

COVERAGE

A 20 kg bag of Tilebond Flex will cover approximately 9 m² using a 10 mm notched trowel

STORAGE

A bag of Tilebond Flex, when stored in a cool, dry environment, and is stored above ground level, will have a shelf life of approximately 12 months.

ADDITIONAL INFORMATION

Parchem provides a wide range of complementary products which include:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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