SOLUTIONS FOR INDUSTRY

Tilebond

Ceramic Tile Adhesive

Characteristics:

- Tilebond is a lightly modified thin bed cement based adhesive for bonding most types of ceramic tiles and stone onto rigid substrates.
- Tilebond can be used internally and externally for most domestic and commercial wall and floor tiling applications where the substrate is not subject to movement, vibration and flexing.
- Tilebond is typically applied on: Concrete, Render, Brickwork, Swimming pools.
- Where there is heavy loading or total submersion and for bonding vitrified tiles, Uniprime additive must be added to the mix to enhance the bond strength, and or improve chemical resistance.

Preparation:

- While in most cases Tilebond can be applied directly to the substrate it is good practice to prime first to avoid rapid loss of the gauging water.
- Priming becomes essential if the substrate is excessively porous or very dense.
- In all cases the surface should be dry and free from any contamination.
- Concrete and render should be properly cured for a minimum of 30 and 14 days respectively.
- Tilebond should not be used for direct fixing to gypsum plaster, paint, metal and over substrates that are subject to movement.

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 e.g. Plasterboard and fibre cement sheet, at internal vertical corners.
- On wall surfaces at storey heights horizontally and approx. 3m-4.5m apart vertically.
- Movement 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 Silicone.

Mixing:

- Add the required amount of liquid (about 0.8-1 Litre per square metre) to a clean bucket.
- While stirring, slowly add the powder (about 3.33-5.0 Kg per square metre) and mix until a smooth lump free paste is achieved.
- Allow to stand for 5 minutes and re stir.
- For improved bond strength, water and chemical resistance, and shear/tensile strengths; Uniprime should be added as a full or partial water replacement at a ratio of 2-5 Litres per 20 Kg bag of Tilebond depending on application.
- Typically applications include: swimming pools, vitrified or "porcelain" tiles, commercial work and some stone.
- For improved flexibility; Uniflex additive should be added as full, or partial water replacement.

Application:

- Tilebond is typically applied with a 8.0-12mm notched trowel.
- Applying about a square metre at a time and firmly pressing the tiles into the adhesive making sure that the adhesive has not "skinned off".
- Any material that has "skinned" or dried excessively should be discarded.
- **Note**: Tilebond is cement based and the principles of cement working should therefore be applied**.**

Clean up:

- 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 racked out with a knife/spatula etc.
- Tools and other equipment can be cleaned up using water while the adhesive is still wet**.**

Coverage:

- Coverage will vary depending on the substrate condition and the type of tile but is approximately 4-6m^2/20Kg bag.

Grouting Application:

- Generally grouting can commence after the adhesive has achieved a firm set (about 24 hours).
- Grouting can be carried out with RLA Grout or RLA Coarse Grout in combination with Grout Add.

Packaging/ Shelf Life:

- Available in: 5 kg cartons and 20 kg bags
- When stored in a cool, dry environment, and above ground level, will have a shelf life of approximately 12 months.

Handy Tips:

- Tilebond is classified as a non-hazardous product.
- For a full MSDS on this product please contact your nearest RLA office.
- Tilebond being cement based is alkaline in nature, and therefore may cause dermatitis.

Technical Data:

Properties	**Results**
Appearance	Grey Powder
Bulk Density	1.51 +/- 0.05
Open Time	Approx. 20 minutes @ 20^oc
Drying Time @ 20^0c	Approx. 24 hours
Shear Strength after 7 days	1.69 MPa
Shear Strength after 14 days	1.89 MPa

The information supplied is to the best of our knowledge true and accurate. The actual application of the product is beyond the manufacturer's control. Any failure or damage caused by the incorrect usage of the product is not the responsibility of the manufacturer. The manufacturer insist that all workmanship must be carried out in accordance with AS3958 part 1 1991. It is also the responsibility of the end user to ensure that the literature in their possession is the latest issue.