SOLUTIONS FOR INDUSTRY

Unibond

Ceramic Tile Adhesive

Characteristics:

- Unibond is a heavily polymer modified thin bed adhesive designed for bonding most types of ceramic tiles and stone onto substrates that may be subject to limited movement.
- Unibond can be used internally or externally for most domestic and light commercial wall and floor tiling applications where the substrate is subject to limited movement e.g. thermal expansion, but should not be used for laying tiles directly onto timber substrates or for applications that are subject to total immersion.
- Unibond is typically applied to: Concrete, Render, Brickwork, Fibre cement sheets, heated floor slabs, Plasterboards.

Preparation:

- While in most cases Unibond can be applied directly to the substrate to be tiled there is occasionally a requirement to prime the surface first with Uniprime i.e. on very porous surfaces or very dense glossy surfaces.
- In all instances the surface needs to be well fixed and free from any contamination.
- Special note should be taken on the fixing and sealing requirements of the substrate supplier.
- Where water proofing is required use Miracryl 2 part or Polymer Liquid seal.

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. Timber and concrete, around fixed elements in the floor e.g. columns, at internal vertical corners, and around the perimeter of the floor.
- In internal floors where any dimension exceeds 9m or 6m if subjected to sunlight, and in external floors where any dimension exceeds 4.5m.
- 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:

- Unibond only requires the addition of clean drinkable water.
- Place the required amount of water into a clean bucket (allow about 0.6-0.8 L per m^2).
- Slowly add the powder to the liquid while stirring and mix until a smooth lump free paste of the desired consistency is achieved.
- Allow to stand for 5 minutes and re stir.

Application:

- Unibond is applied to the substrate with a suitable notched trowel (6-10mm).
- 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 scraped off and discarded.

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 2-3 Kg of Unibond per square metre.

Grouting Application:

- Generally grouting can be carried out after the adhesive has achieved a firm set (24 hours).
- Use either Flexigrout or Smooth Grout on the walls and either Flexigrout or Coarse Grout in combination with Grout Add or Flexi-grout™ Liquid premix on the floors.

Packaging/ Shelf Life:

- Unibond is available in 20 Kg
- A bag of Unibond, when stored in a cool, dry environment, and above ground level, will have a shelf life of approximately 12 months.

Handy Tips:

- Unibond can not be used for fixing tiles directly onto timber floors.
- For applications/ situations not mentioned in this data sheet please contact your nearest RLA office.
- Unibond is classified as a non-hazardous product.
- Unibond being cement based is alkaline in nature, and therefore may cause dermatitis. It is recommended that applicators wear PVC gloves or similar and safety goggles.
- For a full MSDS on this product please contact your nearest RLA office.

Technical Data:

Properties	**Results**
Appearance	Grey Powder
Bulk Density	1.18 +/- 0.05
Open Time	Approx. 20 minutes @ 20°c
Drying Time @ 20°c	Approx. 8 Hours
Full Cure	30 Days
Temperature Resistance	80°c

BRANZ Test Results:

Tensile Strength	0.62 MPa
Shear Strength 7 days	1.87 MPa
Shear Strength 28 days	2.65 MPa
Transverse Deformation	3.79 mm @ 2.36 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.