

# SUPANOVA

## SUPER GRADE POLYMER MODIFIED TILE ADHESIVE

### TECHNICAL DATA SHEET

SUPANOVA is an off white cement based tile adhesive with specially formulated PFR technology designed to give superior shear strength.

What makes SUPANOVA so special is that with the unique PFR technology used gives SUPANOVA superior shear and compression strength making it ideal for use for driveways where heavy vehicle traffic is to be used.

- High performance
- Superior impact strength
- Extended Open Time
- Adhesive-meets C1E classifications



Suitable for internal and external applications.

Ideal for bonding a large range of tile types including ceramic, fully vitrified, porcelain, marble, terrazzo and mosaics.

Ideal for application of tiles over Novaproof modified polyurethane waterproofing membrane.

Low VOC content- meets Green Building Council of Australia Green Star IEQ-13 requirements.

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## SUPER GRADE POLYMER MODIFIED TILE ADHESIVE

### Designed for fixing

Suitable for wall and floor applications and internal and external use.

Ideal for bonding a large range of tile types including ceramic, fully vitrified, porcelain, marble, natural stone, terrazzo and mosaics.

### Substrates

Concrete, renders, screeds.

### Preparation

Ensure surfaces are sound and free from movement, oil, grease, wax, dust and any curing and release agents and any other barrier materials. Ensure surface to be tiled over is strong enough to support the weight of the tiles being fixed. Surface needs to be dry before tiling, with no residue or permanent damp.

### Concrete & Cement Render Screeds

Ensure all concrete slabs are allowed to cure for at least 7 days in accordance with AS 3958.1-2007 and have a wood float finish. The maximum variation in the plane of the concrete must not exceed 5mm in 3 metres for floors and 4mm in 2 metres for walls. Steel troweled finished concrete surfaces must be mechanically abraded or primed first using Optimus Primer.

All render surfaces must be allowed to cure for at least 24 hrs. prior to commencing tiling

### Existing Tiles

Tiles need to be sound and clean. Remove all cracked, drummy or otherwise unsound tiles and repair appropriately. Prime surfaces using Optimus Primer. Contact Novatex Products before commencing if in doubt about required surface preparation.

### Expansion and Movement Joints

Must be installed in accordance with Australian Standard AS3958.1-2007.

Movement Joints must be placed from the substrate through the tile bed up to the face of the tile.

Movement joints must be clean and free from dirt, adhesive droppings and tile spacers. They must be a minimum of 6mm wide and no wider than 10mm. They should be filled with a suitable elastomeric sealant.

#### Movement joints must be placed:

Every 4.5 metres externally and every 6 metres internally.

Around the perimeter of the floor; over existing joints in the substrate.

Where 2 different materials meet (e.g. wood and concrete).

Around fixtures in the substrate (e.g. columns).

Internal vertical corners; changes in direction of the tiling at changes in storey height.

Over existing movement joints.



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### Priming

All porous surfaces should be primed using Nova prime (refer to Nova Prime data sheet for correct application) non porous surfaces should be primed using Optimus Primer (refer to Optimus Primer data sheet for correct application)

### Mixing

20kg of SUPANOVA powder requires 5.5 litres of water  
Always add powder to liquid  
Allow to stand for 3min and then re-stir. Adhesive is now ready to use.

### Application

Once the substrate has been correctly prepared then apply the adhesive onto surface.  
As a general guide use a minimum 10mm notched trowel for floor tiles and a minimum 6mm notched trowel for wall tiles. SUPANOVA can be applied at a bed thickness between 3 to 10mm, block work, Tiles must be firmly pressed in the freshly troweled adhesive, slide the tile at a right angle to the notch pattern to ensure 100% coverage is achieved.  
For tiles which are uneven or have lugs on the back of the tile may need to be buttered with adhesive as well.

### Expansion Joints

Expansion joints must be in accordance with Australian Standard AS 3958.1-1991

### Grouting

Commence grouting when tile adhesive has hardened sufficiently so that the tiles will not be dislodged. Nova Grout should be mixed with Nova Mix Additive as per grout packaging instructions.

### Clean up

Excess adhesive should be removed using a clean damp cloth while still wet.  
Tools and other equipment can be cleaned up using water while the adhesive is still wet.

### Coverage

A 20kg bag of SUPANOVA will cover approximately 9m<sup>2</sup> on walls using a 6mm notched trowel and 6m<sup>2</sup> on floors using a 10mm notched trowel. The coverage will vary depending on substrate condition, tile type and application technique.

### Packaging

SUPANOVA is available in a 20kg bag.

### Shelf Life

A bag of SUPANOVA, when kept in a cool, dry environment, and stored above ground level, will have a shelf life of 12 months.

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### Precautions

Do not apply SUPANOVA in temperatures below 5°C and above 35°C.

SUPANOVA can be used for fixing tiles in permanently immersed situations like swimming pools.

SUPANOVA has an open time of 25 minutes and an adjustment time of 40 minutes. Please be aware of site conditions and only spread enough adhesive so that tiles can be fixed while the adhesive is still wet.

For applications or situations not mentioned in this data sheet please contact Novatex Products Pty Ltd.

For a full MSDS for SUPANOVA please contact Novatex Products Pty Ltd.

SUPANOVA 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.

### Technical data

Colour	Off White
Mixing Ratio	Approx. 5l water per 20kg powder
Application Properties	at 23°C and 50% RH
Open Time	25 minutes
Adjustment time	40 minutes
Grouting time	8 hours
Ready for use	24 hours
Pot life	2 hours
Suitable for Under floor heating	Yes
Mechanical Properties (AS 4992)	
Tensile Adhesion Strength after 28 days dry	1.5 MPA
Water immersion	1.0 MPA
Heat	1.0 MPA
Freeze Thaw	1.0MPA
Specific Gravity	1.3kg per litre
Classification	C1E

### Contact Us

For further technical information, please contact Novatex Products on 02 9757 3525.

