

PRODUCT DESCRIPTION

Triobond AD 500 is a versatile and high-performance tile adhesive designed to meet the rigorous demands of both indoor and outdoor tile installations. Engineered for superior adhesion, extended pot life, smooth creamy consistency, flexibility, and durability, this adhesive ensures that tiles remain securely bonded in various environments, from residential bathrooms and kitchens to commercial exteriors. With outstanding overnight strength and minimal shrinkage, Triobond AD 500 guarantees flawless installations every time.

Central to its efficacy are the specially engineered polymers infused within its formulation. These additives imbue the adhesive with heightened strength and flexibility, fortifying tiled surfaces against potential stresses and strains. Such enhancements not only bolster the durability of installations but also facilitate ease of application and long-term resilience.

Features and Benefits:

- Excellent adhesion to various tiles
- Smooth creamy consistency
- Suitable for interior and exterior
- Enhanced flexibility
- Outstanding overnight strength
- Extended open time
- Non-slump
- Suitable for interior and exterior applications
- Smooth and creamy texture
- White color
- Excellent thixotropic and anti-sag properties

PACKAGING: 20 kg paper bag.

COVERAGE: 20 kg TRIOBOND AD 500 covers 7 SQM using a 10 mm notch trowel.

TECHNICAL DATA

Classification according to AS4992 (ISO 13007-1:2014)	C2TES1
Bond strength in accordance with AS ISO 13007 (MPa):	
- After 28 days	>1.0
- After heat exposure	>1.0
- After immersion in water	>1.0
- Transverse deformation	>2.5 <5mm
Appearance	Appearance
White powder	White powder
Coverage 20kg bag based on a 10mm notch trowel	7m ²
Water required to achieve desired consistency	4-5 Lt for 20 kg bag
Open time	30 minutes
Pot life	2hrs
Adjustment time	30 minutes
Set time before grouting at 23-26 °C, 50% Relative Humidity	24 hrs
Set time before any dry area work at 23-26 °C, 50%	24 hrs

Relative Humidity	
Set time before any wet area work at 23-26 °C, 50% Relative Humidity	7 days
Shelf life when stored plastic wrapped, unopened, elevated, in cool, dry location.	1 year.

All above tests were done at 22°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.

PRODUCT APPLICATION

TRIOBOND AD 500 stands as a versatile solution tailored for interior and exterior applications, seamlessly catering to both commercial and domestic environments. Its adaptability extends across a spectrum of surfaces, making it an ideal choice for walls and floors in diverse settings. From living areas and dining spaces to high-traffic walkways and office interiors, TRIOBOND AD 500 ensures reliable performance and enduring aesthetics.

Type of Tiles

TRIOBOND AD 500 represents an optimal adhesive solution meticulously crafted to accommodate a diverse array of tile materials. Its compatibility extends seamlessly to porcelain, ceramic, mosaic, terracotta, slate, quarry, granite, and marble surfaces, ensuring reliable adhesion across a broad spectrum of tiling applications.

However, it's essential to note that TRIOBOND AD 500 is not recommended for use with translucent tiles or moisture-sensitive stone varieties such as green marble. This precautionary measure underscores our commitment to preserving the integrity of installations and mitigating potential compatibility issues, ensuring the longevity and aesthetics of tiled surfaces.

Substrates

Cement renders, blockwork and rendered brickwork, plasterboard, fibre cement sheet, compatible waterproofing membranes, timber floors (with fibre cement sheet tile underlay installed), under tile heating, new concrete (cured for 7 days) and new screed (cured for 24 hours).

DIRECTIONS FOR USE

Test product in a small area first

- It is essential to plan the area to be tiled, with inclusion of movement joints in accordance with all relevant standard(s).
- Select a trowel with an appropriate square-notch size for the size and type of tile, as per the following:

TILE SIZE	TILE TROWEL SIZE	SIZE NOTCH	KEYING IN/BACK BUTTERING
Mosaic tiles	6mm		
150 x 150mm	6mm		

200 x 200mm	8mm	
250 x 250mm	10mm	
300 x 300mm	10mm	
400 x 400mm and over	12mm	Yes
Any tile size with uneven back, lugs, or grooves	As above, dependent upon tile size	Yes
Translucent tile	As above, dependent upon tile size	Yes

(e.g. old flooring or tile adhesive)		
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SURFACE PREPARATION

All surfaces must be installed in strict adherence to the manufacturer's instructions and pertinent Australian Standard(s), ensuring structural integrity, dryness, cleanliness, and freedom from any form of movement, oil, grease, wax, curing compounds, release agents, or other loose or contaminating materials. Prior to tiling, it is imperative to thoroughly cleanse both old surfaces and newly treated surfaces.

In instances where surfaces are deeply contaminated, scabbling or abrasion is necessitated to achieve a pristine, structurally sound foundation. For painted surfaces, a minimum of 80% of the original substrate must be exposed."

- Surfaces should be prepared and primed as per the following:

SUBSTRATE	SPECIFIC REQUIREMENTS	PRIMING
Concrete - wood float finish (rough)	Cured minimum 6 weeks	Prime with Suitable primer
Concrete - steel trowel finish (smooth)	Cured minimum 6 weeks Free of laitance (not flaking)	Prime with Suitable primer
Rendered brick / blockwork - wood float finish (rough)	Cured minimum 24 hours Sound (Not drummy or cracked)	Prime with Suitable primer
Screed - wood float finish (rough)	Cured minimum 7 days Sound (Not drummy or cracked)	Prime with Suitable primer
Fibre cement sheet, plasterboard	Correctly and firmly fixed	Prime with Suitable primer
Compressed fibre cement sheet	Correctly and firmly fixed	Prime with Suitable primer
Timber floor	Correctly and firmly fixed, free of wax, varnish, and paint	Prime with Suitable primer
Other difficult / non-absorbent (e.g. metal) / contaminated	Where not feasible to remove	Prime with Suitable primer

MIX PREPARATION

Measure the required amount of clean, potable water into a clean bucket, as per the following:

Water requirement for 20 kg: 4-5 Lt of clean potable water.

Gradually incorporate the powder into the water, utilizing a mixing paddle affixed to a drill. Always pour the powder into the liquid, avoiding manual mixing.

Maintain mixing for several minutes until a smooth, lump-free consistency resembling creaminess is attained.

Let the mixture stand for 5 minutes, then remix before applying the adhesive.

APPLICATION

1. Apply an appropriate amount of adhesive onto the prepared substrate, ensuring not to exceed the quantity that can be tiled within the open time of the product, typically ranging from a single tile up to approximately 1m² at a time.
2. Maintain the notched trowel at an angle of 60° or greater relative to the substrate.
3. Spread the adhesive evenly over the designated area for tile application, forming neat rows of adhesive "beads".
4. When "back buttering" is necessary, utilize the straight edge of the trowel to apply a thin layer of adhesive to the back of the tile.
5. Position the tile onto the beaded adhesive and apply firm pressure.
6. Shift the tile forwards and backwards at a 90° angle across the direction of the adhesive beads to ensure thorough flattening, eliminating any voids beneath the tile. Periodically lift a tile post-placement to verify complete compression of the beads and ensure adequate coverage (ranging from 90% to 100%). Subsequently, reposition the tile.
7. Following the completion of each section, promptly remove any surplus adhesive from the grout joint and tile surface using a damp cloth while the adhesive remains wet.

CLEAN-UP & RETURN TO SERVICE

- Thoroughly clean tools and equipment with water prior to the adhesive drying.
- Ensure the product attains its initial set before proceeding with grouting.

- Allow the product to firmly set before returning it to service.

Note: The setting times of the adhesive may vary due to site conditions and climate, potentially resulting in faster or slower setting times than specified

GENERAL Instructions:

- When applying tiles larger than 400x400 mm, ensure that adhesive is back buttered onto the tile. The direction of notch trowel application must be parallel on both the tile and the substrate to prevent the formation of air bubbles between them.

- Avoid application in temperatures exceeding 35°C or dropping below 5°C.

- In cool and/or humid conditions, allow for extended setting times.

- Prevent the adhesive from skinning prior to tile laying. If skinning occurs, remove and discard it, then reapply fresh adhesive.

- Due to uncontrollable external factors, efflorescence is beyond the manufacturer's control. Aesthetic variations in the surrounding area are not covered under the product guarantee.

- The setting times of adhesive can be influenced by site conditions and climate, potentially causing them to be faster or slower than specified.

- Install movement joints as specified in AS3958, "Guide to the Installation of Ceramic Tiles." Failure to comply may lead to the development of drummy or lifting tiles.

Limitations:

- Not suitable for direct tiling over 100% polyurethane or fiberglass waterproofing membranes.

- Unsuitable for areas consistently submerged in water.

- External tiling should not surpass a height of 2.7m.

- Suspended concrete slabs must adhere to AS3958.1 for maximum deflection. Post-tensioned concrete slabs are to be treated as flexible substrates.

- Incompatible with direct tiling over plastics and metals.

- Inappropriate for tiling directly over Masonite, MDF, timber, plywood, or particleboard.

- Not suitable for moisture-sensitive stone such as green marble or man-made conglomerate products.

STORAGE AND HANDLING

Usage Precautions:

- Avoid all personal contact, including inhalation.
- Wear protective clothing when there is a risk of exposure.
- Utilize in a well-ventilated area to minimize exposure.
- Prevent concentration in hollows and sumps to mitigate risks.
- Organic powders, when finely divided over various concentrations and suspended in air or other oxidizing mediums, may form explosive dust-air mixtures, potentially leading to a fire or dust explosion.

Safety Precautions:

- This product causes skin irritation and may trigger an allergic skin reaction. It can also lead to respiratory irritation.
- It poses a risk of serious eye damage. In case of contact with the eyes, rinse with running water immediately and continue rinsing for at least 15 minutes, following guidance from the Poisons Information Centre or a doctor.
- Protective gloves, clothing, eye protection, and face protection should be worn when handling this product.
- Avoid inhaling dust, fumes, gas, mist, vapours, or spray associated with this product.
- Ensure adequate ventilation during both mixing and application processes.
- This product is suspected of causing genetic defects and may contribute to cancer.
- Store the product securely locked up to prevent unauthorized access.
- Check with your local Council for guidance on proper disposal methods for the product contents.
- Keep the product out of reach of children to prevent accidental ingestion or exposure.
- If feeling unwell, contact the Poisons Information Centre at 131 126 (Australia) or seek medical attention promptly.

- PPEs recommended.



- For detailed information on hazardous ingredients and the safe handling procedures, refer to SDS, which is available on the Website www.triobond.com.au

Product Guarantee

We stand behind the quality and performance of our tile adhesive. This product is guaranteed to provide effective adhesion for a period of 15 years from the date of purchase when tiles are installed according to AS3958.1-2007. If our adhesive fails to meet this standard, we offer a full replacement or refund, subject to the terms and conditions outlined below.

Terms and Conditions:

1. **Proper Use and Application:** This guarantee is valid only when the tile adhesive is used and applied according to the manufacturer's instructions and guidelines, mentioned in the Technical Data Sheet.
2. **Coverage:** The guarantee covers adhesion failure due to defects in the adhesive. It does not cover issues arising from improper surface preparation, incorrect application, or external factors such as structural movement, excessive moisture, or extreme temperatures.
3. **Proof of Purchase:** A valid proof of purchase is required to process any claims under this guarantee.
4. **Claim Process:** To make a claim, please contact our customer service department at (info@triobond.com.au) within 30 days of discovering the issue. You may be required to provide samples and photographs of the affected area.
5. **Exclusions:** This guarantee does not cover incidental or consequential damages, including but not limited to, labour costs for removal and reinstallation of tiles, or damage to surrounding areas.

Customer Service Contact Information: Duragrip Pty Ltd
ABN 21 671 054 096 trading as TRIOBOND PO BOX 9179,
Pacific Paradise QLD 4564 Phone: 0494108702 Email:
info@triobond.com.au

We are committed to providing high-quality products and excellent customer service. If you have any questions or concerns, please do not hesitate to contact us.

Manufactured by: Duragrip Pty Ltd ABN 21 671 054 096
Trading as TRIOBOND PO BOX 9179, Pacific Paradise QLD
4564 Phone: 0494108702 Email: info@triobond.com.au Website:
www.triobond.com.au

PDS REVISION

This data sheet was issued in February 2024 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.triobond.com.au for the latest technical data from Duragrip Pty Ltd ABN 21 671 054 096 Trading as TRIOBOND.