



奧迪美®

TA33

TILE BOND ENHANCER (TWO-COMPONENT)

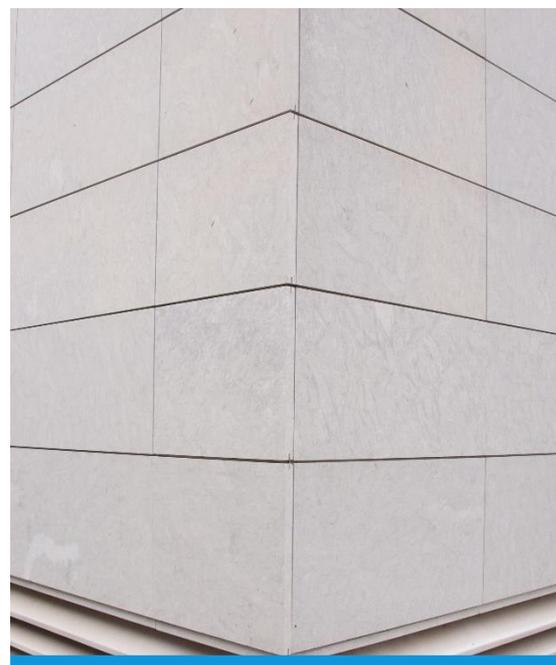
HIGH STRENGTH PRE-TREATMENT FOR SPECIAL TILES

PRODUCT DESCRIPTION

OPTIMIX TA33 TILE BOND ENHANCER (TWO-COMPONENT) is a high quality two part polymer modified cementitious adhesive slurry for pre-treating the bonded surfaces of tiles. It is designed to improve the long term bonding performance particularly when installing difficult or high value interior and exterior ceramic tiles.

OPTIMIX TA33 TILE BOND ENHANCER (TWO-COMPONENT) is a measured two component product ideal for use with all Optimix and most proprietary C1 and C2 grade adhesives. It is easy to mix and apply by brush or roller.

OPTIMIX TA33 TILE BOND ENHANCER (TWO-COMPONENT) was developed primarily for use with hard and high density tiles such as fully vitrified tiles and tiles with bonded mesh or other awkward reinforcements but it is also suitable for use on very large format and high value tiles where the cost of failure is high.



TYPICAL USAGE

- Hard, Dense and Fully Vitrified Tiles
- Mesh Reinforced Tiles
- High Value Tiles
- Large Format Tiles

FEATURES AND BENEFITS

- High Bond Strength
- Easy to Use
- Two Component Performance
- Interior and Exterior Use



TECHNICAL DATA

Mixing

Proportions	40kg powder + 10kg Liquid (4:1 by weight)
Mixing Method	Forced Action Mixer e.g. Low Speed (~500rpm) Drill & Paddle
Mixing Time	Mix for a few minutes until homogeneous and lump free, Leave to stand for 5 minutes, Briefly remix before use

Pot Life ^{1) 2)}

@ 25°C	≤ 60 min.
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Performance ^{1) 2)}

Product Characteristics	Specification	OPTIMIX TA33	Test Method
Initial Tensile Adhesion Strength (MPa)	≥ 1.0 ³⁾	~ 1.0	EN1348:2007 CI 8.2
Tensile Adhesion Strength After Water Immersion (MPa)	≥ 1.0 ³⁾	~ 1.0	EN1348:2007 CI 8.3
Tensile Adhesion Strength After Heat Aging (MPa)	≥ 1.0 ³⁾	~ 1.0	EN1348:2007 CI 8.4
Tensile Adhesion Strength After Freeze Thaw Cycles (MPa)	≥ 1.0 ³⁾	~ 1.0	EN1348:2007 CI 8.5

Environmental Data

Volatile Organic Compounds (VOC) ⁴⁾	≤ 10 g/L
Potential BEAM points	Product is manufactured within 800km of Hong Kong project sites
Packaging Composition	Paper bags incorporating 40% recycled paper

Packaging & Yield ⁵⁾

Coverage per coat	~ 1.0 - 1.5 kg/m ²
Yield (per 50kg set)	~ 26 L
Packing Size	40kg bag + 10kg pail
Shelf Life	12 months

Notes

- 1) Typical results achieved in laboratory conditions and for reference only. Actual results on site will vary with ambient, substrate and tile conditions.
- 2) In-house specification and/or in house test method
- 3) Modified tests carried out with Optimix TA328 Tile Adhesive (Flexible).
- 4) VOC content is tested by USEPA Method 24.
VOC limits for ceramic tile adhesives <https://www.epd.gov.hk/>
- 5) Approximate figures make no account for wastage of any kind.



INSTALLATION GUIDE

(Refer to Method Statement for more details)

SURFACE PREPARATION

Substrate must be clean, free from loose particles, dust, oil, grease and any other contaminants which may affect the bond.

MIXING

Mix **OPTIMIX TA33** in the supplied ratio of 4 parts powder to 1 part liquid by weight. If mixing less than a full pack then the proportions must be measured carefully.

Shake the liquid in the drum for a few seconds before use.

Using a suitably sized flat bottom drum and a low speed mixer (~500 rpm); add the liquid to the drum and add the powder to the liquid while mixing. Mix for 2 to 3 minutes or until a lump free homogeneous mix is achieved.

Stop part way through and use a trowel in the mixing bucket to ensure that all of the powder from the bottom and sides of the drum has been combined.

Allow the mix to stand for 5 minutes and mix briefly again immediately before use.

APPLICATION

Use a brush or a roller to apply the mixed slurry to the back of the tile in a thin layer around 0.5mm to 0.8mm and then set the tile aside to harden.

Rough, highly textured surfaces or tiles with a bonded mesh are best treated with brush application as this helps to apply material fully into an uneven surface.

If necessary a second coat can be applied to ensure complete coverage, this can be useful on uneven or bonded-mesh tiles.

Apply the second coat once the first coat has dried sufficiently to receive a second coat without dragging or removing the first coat. The second coat should be applied at 90 degrees to the first coat.

FINISHING AND CURING

Using a damp cloth wipe off any excess tile bond enhancer, drips or splashes from the sides or front of the tile while the **OPTIMIX TA33** is still wet.

Set the tiles aside in a cool and well ventilated area for the tile bond enhancer to harden, avoid direct sunlight and high temperatures during this time.

The tiles can be placed upright and stacked vertically to keep the tiles apart but take extra care to avoid getting any tile bond enhancer onto the decorative face of tile.

The treated tiles can be installed as normal once the **OPTIMIX TA33** has set, typically after 3 to 5 hours, otherwise the tiles should be applied within a few days after treatment.

LIMITATIONS

OPTIMIX TA33 TILE BOND ENHANCER is confirmed to be compatible with all Optimix tile adhesives. It is expected to be suitable for use with most proprietary cement based adhesives and most ceramic tiles, however due to the vast array of tiles and adhesives available it is not possible to conduct exhaustive testing. Thus the client should conduct trials to assure themselves that the performance is as expected before committing to the main works.

HEALTH AND SAFETY

OPTIMIX TA33 is alkaline in nature and can cause irritations to persons with sensitive skin. Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective gloves and masks while handling the product. If contact with eyes, rinse immediately with plenty of clean water and seek medical advice. This product is non-toxic and is not flammable.

STORAGE

Store the products in a cool and dry place with the original unopened bags on pallets with plastic wrapping. Protect from direct sunlight, rainfall and exposure to high humidity conditions. Avoid excessive stacking of pallets. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging and reduce shelf life.

ALTERNATIVE PRODUCTS

- **TA80** Tile Bond Enhancer (One-Component)
- **TA313** Tile Adhesive (Semi-Flexible)
- **TA328** Tile Adhesive (Flexible)
- **TA328S** Tile Adhesive (Flexible) with Enhanced Efflorescence Resistance
- **SA329** Stone Floor Adhesive (Fast-Setting)
- **TA338** Tile Adhesive (High Performance)



Important Note: The information contained herein is, the best of our knowledge, true and reliable and is supported by the present state of our knowledge. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives as the conditions of use and any labour involved are beyond our control.



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