

TA80

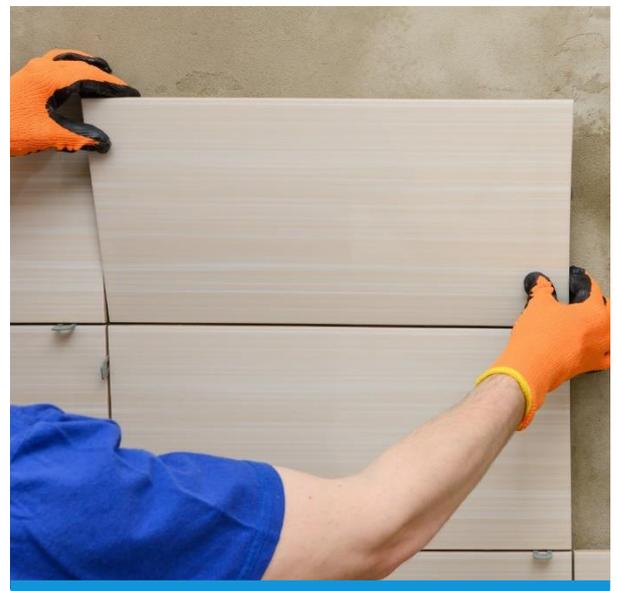
TILE BOND ENHANCER (ONE-COMPONENT)

READY-TO-USE PRE-TREATMENT FOR DIFFICULT TILES

PRODUCT DESCRIPTION

OPTIMIX TA80 TILE BOND ENHANCER (ONE-COMPONENT) is a first generation pre-blended polymer emulsion for rapid pre-treatment of the bonded surfaces of tiles. It is designed to form a strong bond to a variety of tile materials to improve the bonding interface with all Optimix and most proprietary C1 and C2 grade traditional cement based tile adhesives.

OPTIMIX TA80 TILE BOND ENHANCER (ONE-COMPONENT) is a ready to use liquid that requires no premixing, is easy to apply by brush or roller, dries quickly and thus is ideal for small or large projects alike. It is suitable for difficult to bond tiles such as fully vitrified, low water absorption or tiles with mesh or other awkward reinforcements. Its simplicity of application makes it suitable for use on all sizes of tiles from small to very large format.



TYPICAL USAGE

- Hard, Dense and Fully Vitrified Tiles
- Mesh Reinforced Tiles
- Small or Large Format Tiles

FEATURES AND BENEFITS

- High Bond Strength
- Easy to Use
- Single Component Convenience
- Interior and Exterior Use

TECHNICAL DATA

Composition

Appearance	Milky White Water Based Liquid
Solids Content	≥ 40%

Performance ^{1) 2)}

Product Characteristics	Specification	OPTIMIX TA80	Test Method
Touch Drying Time	-	2 ~ 6 hours	Visual check
Initial Tensile Adhesion Strength (MPa)	≥ 0.5 ³⁾	~ 0.7	EN1348 CI 8.2
Tensile Adhesion Strength After Water Immersion (MPa)	≥ 0.5 ³⁾	~ 0.7	EN1348 CI 8.3
Tensile Adhesion Strength After Heat Aging (MPa)	≥ 0.5 ³⁾	~ 0.7	EN1348 CI 8.4
Tensile Adhesion Strength After Freeze Thaw Cycles (MPa)	≥ 0.5 ³⁾	~ 0.7	EN1348 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 & Yield ⁵⁾

Coverage per coat	~ 5 - 8 m ² /kg
Yield (per 50kg pail)	~ 125 - 200m ² @ 2 coats
Packing Size (per pail)	50kg
Shelf Life	6 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 TA313 Tile Adhesive (Semi-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

Shake or stir the liquid in the drum for a few minutes before use.

APPLICATION

Use a brush or a roller to apply the liquid to the back of the tile in a thin but even layer. Avoid leaving any drip or pooling of excess tile bond enhancer.

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.

Take care to achieve a complete coverage and then set aside to dry.

If the surface is very uneven or has an awkward mesh attached then a second coat may be applied. Wait until the first coat has dried to the touch and hardened 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 TA80** is still wet.

Set the tiles aside in a well ventilated area for the tile bond enhancer to dry. Higher temperatures and strong drafts will accelerate the drying process but it is recommended to avoid direct sunlight and surface temperatures above 40°C.

The treated tiles can be installed as normal once the **OPTIMIX TA80** has completely dried to the touch.

The tiles should be applied within a few days after treatment.

LIMITATIONS

OPTIMIX TA80 TILE BOND ENHANCER is confirmed 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 TA80 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

- **TA33** Tile Bond Enhancer (Two-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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