

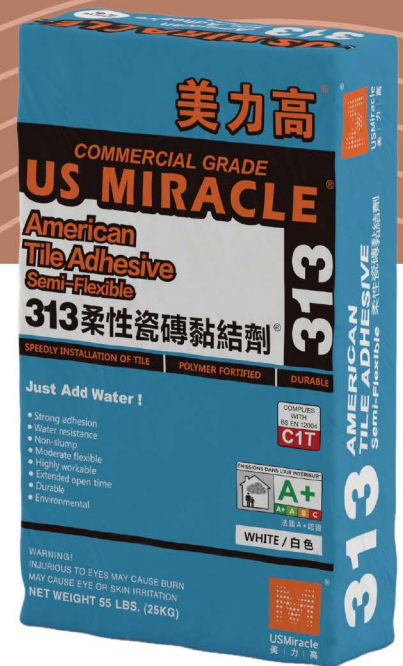
TILE ADHESIVE & COLOR GROUT SERIES

313 AMERICAN TILE ADHESIVE

SEMI-FLEXIBLE

- Strong adhesion
- Water resistance
- Non-slump
- Moderate flexible
- Highly workable
- Extended open time
- Environmental
- Durable

US MIRACLE 313 SEMI - FLEXIBLE TILE ADHESIVE is a cementitious, water resistant, polymerized thin bed tile adhesive for interior and exterior walls and floors tile installation. It is ideal for installation of low water absorption tiles, mosaic tiles, porcelain, small natural stone tiles, most terrazzo, reconstituted & homogeneous wall and floor tiles.



WHITE ○

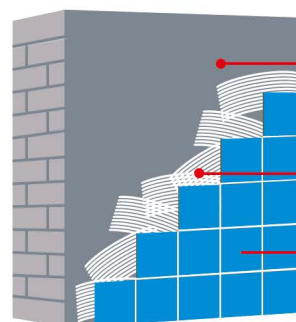
GRAY ●

USAGE

- Tiling for tile size not greater than 600mm x 300mm.
- General purpose for Interior or exterior walls and floors tiling works.
- Suitable substrates include concrete, cement plasters, brickworks, and ALC block walls.
- Deformability which allows tiling on substrate subject to movement due to thermal expansion.
- Tiling on cementitious waterproofing material.

SURFACE PREPARATION

- The surface must be stable and cleaned from any kind of remnants, loose particles, dust, grease, etc.
- New concrete or rendered surfaces should be allowed to cure for minimum of 4 weeks or until shrinkage movement has taken place before laying tiles.
- **US MIRACLE 313 SEMI - FLEXIBLE TILE ADHESIVE** can applied at least 7 days after the application of render.
- Before application, dampen the surface with clean water and allow excess water to drain away.
- Do not use product on gypsum based substrate directly without any surface pretreatment.



Concrete Wall or Floor

313 AMERICAN TILE ADHESIVE
(SEMI-FLEXIBLE)

Tiles

MIXING

25 kg / bag powder mix with approximately 5.5 - 6 liters of clean water. Using an electric mixer to mix the product until a homogenous mixture is achieved. Stir the mixture thoroughly for 5 minutes to obtain a creamy paste without lumps. The mixture is ready to use after stand for 5 minutes and mix again for 30 seconds before using.

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SEMI-FLEXIBLE

APPLICATION

Spread **US MIRACLE 313 SEMI - FLEXIBLE TILE ADHESIVE** by using a notched trowel on the substrate with minimum 2.5-6mm thick per coat. Place and press the tiles firmly onto the adhesive bed and ensure good contact. An additional layer of adhesive on the back of the tiles are recommended for tile with deep grooves or ridges. When the surface of tile adhesive is dried, scrape off and replace it with fresh tile adhesive. It is recommended to use **US MIRACLE AMERICAN TILE GROUT** for grouting 24 hours after tiling.

CURING

Product has excellent water retention properties, water curing is normally unnecessary. Water curing is only required under extremely hot or dry condition.

STORAGE

To maintain product quality, store **US MIRACLE 313 SEMI - FLEXIBLE TILE ADHESIVE** in a dry place on its original pallet with intact plastic wrapping, away from direct sunlight. Keep it elevated off the ground to avoid moisture and avoid overstacking. Improper storage may cause premature expiration or clumping. Shelf life is 12 months from the production date.

HEALTH AND SAFETY

This product is non-toxic and non-flammable. It contains cement, so avoid contact with eyes or prolonged skin exposure during use. Wash thoroughly after application. If it gets in your eyes, rinse immediately with plenty of water and seek medical attention. Keep out of reach of children.

COMPLIED STANDARDS

- European Norm: EN 12004 : 2007 C1T
- French Standard: French VOC label A+ class

TECHNICAL DATA

Initial Adhesion Strength	≥0.5 N/mm ²
Adhesion Strength After Water Immersion	≥0.5 N/mm ²
Adhesion Strength After Heat Ageing	≥0.5 N/mm ²
Adhesion Strength After Freeze-thaw Cycles	≥0.5 N/mm ²
Open Time: not less than 20 minutes	≥0.5 N/mm ²
Slip Resistance	<0.5 mm
Coverage	Approx. 1.2kg/m ² /mm
Packaging	25 kg/Bag
Shelf Life	12 Months

* The provided data reflects standard laboratory testing outcomes, which may differ slightly based on the specific environmental and substrate conditions at the application site.

The information provided here is, to the best of our knowledge, accurate and reliable, based on our current understanding. No guarantees or warranties are offered regarding any recommendations or suggestions, as the conditions of use and labor involved are outside our control.



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