

# 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 American 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 materials.

#### 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 American 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.

#### 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.

#### APPLICATION

Spread US MIRACLE 313 American 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, scraped off and replace it with fresh tile adhesive. It is recommended to use US Miracle Tile Grout for grouting 24 hours after tiling.

The information detailed in this datasheet is liable to modifications from time to time in the light of experience & normal product development. To the best of our knowledge, the technical data contained herein are true. Because it is not possible to give specific instructions for various site conditions or control the applications. We reserve the right to modify the information detailed in this datasheet.

[www.usmiracle.com](http://www.usmiracle.com)



#### COMPLIED STANDARDS

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

#### CURING

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

#### TECHNICAL DATA

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

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