

# INSEE Mortar 45 TileFix PlusFlex

Cementitious tile adhesive by compliance TIS standard

## INSEE MORTAR 45 TileFix PlusFlex

is a high quality cementitious tile adhesive for large format ceramic and porcelain tiles. It is also suitable for natural materials such as marble and granite. The product is applicable for both floor & wall tiling

## Advantages

- Special adhesion strength with special adhesive substance and excellent tension and shear resistance
- Easy to apply
- Suitable adjusting time
- Tile immersion in water not required before installation
- TIS.2703-2559

## Applications

- Suitable for high, medium, and low porosity tiles and applicable to floor and wall tiles, both indoor and outdoor
- Suitable for large format tile up to the size of 100x100 cm for indoor and tile size of less than 100x100 cm for outdoor area
- Suitable for large format marble, granite, and natural material tiles up to the size of 60x60 cm for indoor and outdoor
- Suitable for tiling swimming pools

## Coverage Rates

One bag of INSEE Mortar 45 TileFix PlusFlex can cover an area of approximately 5 sq m depending on tile adhesive thickness and deflection of floors and tiles.

## Mixing Ratio

20 kg (1 bag) of INSEE Mortar 45 TileFix PlusFlex per 5.1-5.3 litres of clean water or by volume, 2.7-2.8 part of INSEE Mortar 45 TileFix PlusFlex per 1 part of clean water. The mixed tile adhesive can be used within 4 hours. Keep away from sunlight & hot condition.

## Packaging

20 kg/bag



## Instructions

1. Use the flat side of a square notch trowel to apply tile adhesive onto prepared substrate. Try to apply no more than 1 sq m each time.
2. Remove dust and debris from tiles. Do not immerse tiles in water.
3. Spread tile adhesive in a thin layer to the back of the tiles to reduce air pockets underneath, fix the deflection, and ensure appropriate bond between tile and substrate.
4. Place tiles onto tile adhesive bed and align edges. Place a rubber hammer or trowel handle end to release air under the tiles to ensure appropriate bond and avoid air pockets.
5. The mixed tile adhesive should be used within pot life. Do not add additional water or tile adhesive powder to adjust workability or extend pot life as it would result in quality loss.

## Curing

Allow 24 hours of curing time before tile grouting.

## Storage & Shelf Life

Store in dry place. Avoid moisture and direct sunlight. An unopened package has a shelf life of 6 months from manufacturing date.

# INSEE Mortar 45 TileFix PlusFlex

Cementitious tile adhesive by compliance TIS standard

## Technical Properties

CONDITION/DESCRIPTION	TIS.2703-2559 ISO13007 C1 ANSI A118.1	SPECIFICATION
Open Time at 20 min	≥0.5 MPa,	PASSED
Slip Resistance / Sag	≤0.5 mm	PASSED
CONDITION/DESCRIPTION	TIS.2703-2559 ISO13007 C1	SPECIFICATION
<b>Tensile Adhesion Strength</b>		
Standard Condition at 28 days	≥ 0.5 MPa	PASSED
Standard Condition at 7 days, Water Immersed Condition at 21 days	≥ 0.5 MPa	PASSED
Standard Condition at 14 days, Heat Aging Condition at 14 days	≥ 0.5 MPa	PASSED
CONDITION/DESCRIPTION	TIS.2703-2559 ANSI A118.1	SPECIFICATION
<b>Shear Adhesion Strength</b>		
<i>High Absorbent Glazed Wall Tiles</i>		
Standard Condition at 7 days	> 1.38 MPa, > 200 psi	PASSED
Standard Condition at 7 days, Water Immersed at 7 days	> 1.03 MPa, > 150 psi	PASSED
<i>Low Absorbent Porcelain and Mosaic Tiles</i>		
Standard Condition at 1 day	> 0.34 MPa, > 50 psi	PASSED
Standard Condition at 7 days	> 1.03 MPa, > 150 psi	PASSED
Standard Condition at 7 days, Water Immersion at 7 days	> 0.69 MPa, > 100 psi	PASSED
Standard Condition at 28 days	> 1.03 MPa, > 150 psi	PASSED

# INSEE Mortar 45 TileFix PlusFlex

Cementitious tile adhesive by compliance TIS standard

Use Information	
Slake time	0-3 min
Pot Life (In shade)	4 hours
Open Time within	20 min
Adjust Time within	20 min
Tile Adhesive Thickness	2-10 mm
Curing time before grouting	24 hours

Remarks : Figures in the table may differ depending on ambient temperature and jobsite condition while applying.

## Precautions

- Store in dry shade free of moisture and drizzle. Do not apply the product on the area exposed to direct sunlight.
- This product is non-toxic and non-flammable. However, it has alkaline properties. Wear safety gloves & goggles when applying. In case of skin contact, rinse with clean water. In case of eye contact, wash out with plenty of clean water and seek medical attention.
- Large tile format starting from 80x80 cm requires manufacturer's installation instructions. 12x12 mm square notch trowel or bigger is recommended for application.
- Follow instructions precisely for effective result.