



TUFFIX

POLYMER MODIFIED TILE ADHESIVE

FOR INTERNAL WALLS AND FLOORS

02



Product Description

BNA Tuffix 02 is a thin set tile adhesive designed for ceramic and semi porous tiles in internal areas, featuring polymer modification for enhanced performance. This dry mix mortar requires the addition of water before application and is suitable for both vertical and horizontal use over cementitious substrates.

Key Features and Benefits

Suitable for floor and wall application in internal areas. Self-curing properties facilitate hassle-free application. Easy to mix and apply. No hacking of the substrate is needed for proper bonding. Very low shrinkage prevents debonding of tiles. Non sag properties enable application on vertical walls without slippage. Applicable for bed thickness ranging from 3-12 mm, with a limited extent up to 15mm.

Compliance/Standards

Complies to ISO 13007 and EN 12004 standards (C1 for Cementitious and T for Slip-resistant). Also complies with IS 15477:2004 (Type 1)

Limitations

Not suitable for large format tiles on walls. Do not apply on uncured substrate. Do not use on a waterproofing coat not compatible with cementitious tile adhesive

Substrate Preparation

- Eliminate oil stains, bond inhibiting compounds, dirt, dust, and laitance from the substrate. Utilize a high-pressure water jet or an appropriate cleaning method.

- Ensure the substrate is flat, stable, well-adhered, and exhibits normal absorption.
- Allow the substrate to cure adequately to prevent the occurrence of shrinkage cracks.
- Thoroughly saturate the surface and remove excess water before the application of BNA Tuffix 02.

NOTE:

For higher undulation, level the surface using latex modified plaster. Proper expansion joints should be provided while tiling over a large area. Do not cover expansion joints with adhesive; fill them with an appropriate flexible sealant.

Mixing

- Combine 3 parts of Tuffix 02 with 1 part of clean water (by volume) gradually, using a suitable stirrer, low-speed drill mix, ensuring a lump-free, smooth, workable paste.

- Allow the mixed solution to stand for 2 minutes for maturation.

Do not extend the pot life by adding more water to the mix.

Avoid adding any additional substances, such as cement or sand, to the mix, as they will affect product performance.

Application

- Apply the adhesive onto the substrate using the flat side of the trowel, exerting firm pressure to ensure proper integration with the surface. Employ the notched side to comb on additional adhesive. Utilize the appropriately sized notched trowel to guarantee the comprehensive bedding of the tile. Spread an amount of adhesive that can be covered with tile within a 10-minute

window. For fixing large format tiles on floor, back buttering is recommended to achieve complete bedding and robust support. Position the tiles into the wet, adhesive surface, and firmly beat them in using a beating block and rubber mallet to embed the tile and make necessary level adjustments.

- Do not wet the adhesive with water once a skin has formed, as this can create weakening of bond.
- Ensure proper coverage and avoid voids by buttering the adhesive onto the tile.
- Maintain adequate gaps between tiles for thermal expansion and contraction.
- If necessary, adjust tiles within 15 minutes of installation.
- Clean excess adhesive from tiles and joints with a damp sponge or cloth before it sets. Allow at least 24 hours before grouting.

Grouting and Sealing

After applying BNA Tuffix 02, grout the joints 24 hours later using BNA Glass bond epoxy or any other suitable tile joint filler.

Ready for Use

Surfaces become ready for use 14 days after completing the grouting process.

Coverage

Coverage is approximately 1.45 - 1.50 Kg/sq. m per mm of thickness. Ensure that all surfaces are without undulations for maximum coverage.

Tested under standard lab conditions.

Packaging: Available in 30 Kg bags

Shelf Life: The product has a shelf life of 1 year from the month and year of manufacturing for unopened bags, provided they are stored in dry conditions.

CAUTION: Prolonged contact may cause irritation to the eyes and skin. Seek medical help if the problem persists. It is recommended to use gloves during application.

Technical standards and performance

IS 15477 : 2004

Type	Property	Requirement	Tuffix 02
Type 1 Adhesive	Tensile adhesion strength : Dry Conditions 14 days	0.5N/mm ²	1.04 N/mm ²
	Shear Adhesion Strength : Dry Condition	1 N/mm ²	1.01N/mm ²

ISO 13007 and EN 12004

Classification	Property	Requirement	Tuffix 02
C1 - Normal cementitious adhesives (fundamental characteristics)	Tensile adhesion strength	≥ 0.5 N/mm ²	0.95 N/mm ²
	Tensile adhesion strength after water immersion	≥ 0.5 N/mm ²	0.65 N/mm ²
T - Slip resistance	Slip	≥ 0.5 mm	No Slip