



Fixall Excel

HIGH PERFORMANCE TILE ADHESIVE

DESCRIPTION

Bostik FIXALL EXCEL is an ultra-high strength cement-based tile adhesive that is suitable for all types, sizes and applications of ceramic tiles as well as fully vitrified or impervious tiles such as porcelain, mosaic and natural stones, and high-absorbent bricks & stones up to 80cm x 80cm in dimension. Conforms to EN 12004/ISO 13007/AS 4992 testing method – C1E (see performance table below).

FEATURES AND BENEFITS

- Superior tensile adhesion strength equal or greater than 0.8 MPa for fully vitrified tiles
- Extended open time for flexibility in application
- Long pot life yielded excellent workability and placement
- Smooth feel & easy trowelling
- Water cleanable and non-toxic
- No unpleasant odor
- Thin and thick bed application

RECOMMENDED USES

- All types, sizes & applications of ceramic tiles, terracotta, & slate.
- Fully vitrified tiles and natural stones applied horizontally (any sizes) & up to 80cm x 80cm in size for vertical application.
- Concrete slab & cement render.
- Brickwork & Blockwork
- High traffic areas
- Suitable with continuous immersion, e.g. swimming pool
- Can be applied outdoor or subject for certain expansion/vibration

APPLICATION METHODOLOGY

Surface Preparation

Make sure the substrate has been correctly installed according to relevant standards and manufacturer's recommendation:

- Allow curing time at least for screeds (7days) and concrete (14-28 days).
- Remove all materials that will interfere with bond. These include but not limited to oil, grease, wax, release agents, curing compound, dust and any loose material.
- Ensure surface is mechanically sound. All weak or friable material must be removed.



Mixing

25 kg bag powder mixes into 6.5-6.75 liters of water

For best result

1. Add water to container
2. Mix powder into water with mechanical stirring
3. Mix until completely homogenous, smooth paste consistency.
4. Allow to stand for 1-2 minutes before using.

NOTE: For manual mixing application, pour the recommended water to 25 kg bag of powder. Mix thoroughly, eliminating any voids, lumps and untreated powder in mixture. Ensure that mixture attained homogenous with smooth paste consistency before using. Don't add extra water after attaining the right mixture. Discard when the product stiffens to bucket or mixing board.

APPLICATION

1. Apply to the prepared substrate using notched trowel. Use 6mm notch for tiles up to 15cm x 15cm, a 10mm notch for up to 25cm x 25cm and a 12mm notch for 30cm x 30cm tiles. Tiles 40cm x 40cm and above should be back-buttered in addition to using a 12mm notched trowel.
2. Place and press firmly the tile into adhesive before it skins.
3. Move the tile at an angle away from its initial position then place back to achieve a complete walling contact surface between adhesive and tile.
4. Apply only up to one square meter at a time to avoid skinning.
5. If skinned, return the adhesive to the bucket then re-mix or re-spread it onto substrate exposed "wet adhesive"

6. Check that enough of the substrate and tile back are in contact with adhesive (usually at least 80% but higher for large format tiles)
7. Discard any material that has hardened before use.
8. Allow adhesive to harden and set the tile adequately before grouting.

NOTE: All workmanship must be carried out in accordance to relevant standard and good workmanship practices.

COVERAGE

On-site coverage will vary widely as it depends on a larger number of variables. These include but not limited to: application technique, substrate levelness, wastage, trowel angle, trowel wear, substrate absorption, contact coverage and flatness. As such the following coverage is intended as a guide only. It is strongly advised to conduct preliminary mock-up to determine the actual coverage based on site condition.

Approximately 3kg powder per square meter using 6mm x 6mm notched trowel and 6 kg per square meter using 12mm x 12mm notched trowel.

PERFORMANCE PROPERTIES	
@28 Days; 25°C / 50% RH	Porcelain Tiles <0.5% Water Absorption
Tensile Adhesion Strength	0.8 - 1.0 MPa
Water Immersion	≥0.5 MPa
Transverse Deformation	1.5 - 2.0mm
Non-sag Property	Yes
Heat Ageing	≥0.5 MPa

Open Time: 30 Minutes

Conforms to EN 12004/ISO 13007/AS 4992 testing method - C1E

PERFORMANCE TABLE / AREAS OF APPLICATION

FIXALL EXCEL		
MATLS/SIZE/APPLICATIONS	CERAMIC ALL SIZES	PORCELAIN MAX 80X80
WALL	OVER SPECIFIED	EXCELLENT
FLOOR	OVER SPECIFIED	EXCELLENT
WET	OVER SPECIFIED	EXCELLENT
IMMERSION	OVER SPECIFIED	EXCELLENT
LOW MOVEMENT	EXCELLENT	EXCELLENT
HIGH MOVEMENT	EXCELLENT	VERY GOOD
HEAVY TRAFFIC	EXCELLENT	VERY GOOD

PHYSICAL PROPERTIES

Appearance	Cement-based grey & white powder
Mixing SG	1.46 g/cu m
Mixing Ratio	6.5 – 6.75 L water per 25 kg bag
Pot Life	3 hours at 22 -25°C
Open Time	30 minutes at 22 - 25°C & 50% RH

*Average laboratory values provided as a general guide

**Actual field performance will depend on installation and site conditions

GROUTING

Use appropriate Bostik grout, allowing joint width of 1.5mm to 6mm for walls and 3mm to 12mm for floors.

CLEAN UP

Remove using a wet cloth before the product hardens. If allowed to set it must be removed mechanically.

POT LIFE

Three hours at 22°C and 50% Relative Humidity.

SETTING TIME

6 – 8 hours at 25°C and 50% Relative Humidity. Pot life and setting time will be influenced by ambient conditions. In warm or dry conditions a shorter pot life and setting time should be expected and longer when cool. Extra care should be in warm or dry conditions to ensure the adhesive has stiffened significantly before the tiles are applied. Ensure that the open time has not been exceeded. If in doubt discard unused product and prepare a fresh batch.

STORAGE AND SHELF LIFE

12 months when stored off the ground in a cool, dry weatherproof environment.

IMPORTANT NOTES

- When tiling directly onto waterproofing membranes check to ensure compatibility. If not already approved by Bostik in writing, additional compatibility tests may be required.
- If considering tiling over paint, abrade, clean and sound it before tiling. Priming might be required. Don't use in windy or very low or high humidity conditions. Use only ambient conditions between 5 – 35°C.
- Contact Bostik for advice before work starts if substrates or tiles are unusual or non-traditional or if there is any uncertainty regarding suitability or preparation.
- For vertical application, do not exceed 2.7m for single tile otherwise check that it will support the intended weight.

DISCLAIMER:

The information in this Technical Data Sheet is intended for the assistance of users and is of a general nature. It reflects the extent of our knowledge and experience of our products and is based on tests which we believe to be reliable. However, no guarantee of accuracy can be given due to the wide range of surfaces, environmental and field conditions and variations encountered in raw materials, manufacturing equipment and methods at the place where the work is performed. Some of these will be beyond our knowledge and control. Users are asked to make sure that the TDS in their possession is the latest issue. Likewise, we recommend users carry out their own tests to determine the suitability of the product for their particular purposes.

Any claim for a defective product must be filed within 30 days of discovery of a problem and must be submitted with written proof of purchase. Claims are not transferrable or assignable and extend only to the original purchaser/user. Bostik reserves the right to inspect alleged failure and no responsibility will be accepted unless Bostik is given the opportunity to do so. Bostik limits its liability to the replacement of the product/s proven faulty.

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