

TECHNICAL DATASHEET

FIXOBOND FLEX

Premium Grade Flexible Tile Adhesive



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PRODUCT INTRODUCTION

FIXOBOND FLEX is a single component, high performance, self curing ,flexible tile adhesive. It consists of distinguished blend of cement, well graded minerals and high content of modified polymers . When mixed with water it forms an outstanding adhesive that capable for fixing all types of heavy or large ceramic tiles and natural stones on all common construction substrates that may be subjected to vibration or limited deflection internally or externally. **FIXOBOND FLEX** is suitable for tile installations over green screeds and render.

Version : 2 (MAY : 2023)

PRODUCT KEY FEATURES

1. Excellent shrinkage and crack resistance
2. Ultimate stability & dual bonding strength (C2)
3. No vertical slip (T)
4. Extended open time (E)
5. Highly flexible (S1)
6. Ultra high adhesion & flexural strength

RECOMMENDED APPLICATIONS

1. Large format or heavy tiles and natural stones
2. Highly vitrified tiles and all types of stone
3. Superb in fixing tiles on floors and walls
4. Tile on tile application
5. Compatible with cementitious and two component cementitious acrylic waterproofing membranes
6. Porcelain, glass mosaic, ceramic, vitrified, marble, natural stones, terrazzo
7. Substrates : Cement-Sand Screeds /Concrete / AAC Walls/Waterproofing Coated Products./Self Levelling Products/Wood/gypsum Board/Glass

TECHNICAL PROPERTIES (Complies to IS 15477 : 2019 (Type 4) class C2 ,T,E ,S1& EN 12004,EN 1348,EN 14411)

Appearance	Grey/White
Bulk Density	
Grey	1500 ± 100 Kg/m ³
White	1400 ± 100 Kg/m ³
Water Demand	
Grey	27 ± 3 % by weight of powder
White	30 ± 3 % by weight of powder
Tensile Adhesion Strength	≥ 2.0 N/mm ² @ 28 days (Dry condition) ≥ 1.0 N/mm ² @ 28 days (Wet condition)
Shear Adhesion Strength	≥ 1.5 N/mm ² @ 28 days (Dry condition) 1.0 N/mm ² @ 28 days (Wet condition) 1.0 N/mm ² @ 28 days (Heat Aging condition)
Open Time	≥ 30 minutes
Pot life (23°C)	≥ 4 Hours
Pot life (35°C)	≥ 3 Hours
Pot life (40°C)	≥ 2 Hours
Adjustability	≥ 15 minutes
Time to Traffic	24 Hours
Deformability	≥ 2.5 mm
Final Thickness	3 mm - 15 mm(Depending on site condition)
Working Temperature	-30°C to +90°C
Application Temperature	+5°C to +35°C
VOC Content	< 5 gm/liter
Slip Resistance	< 0.5 mm

The values are obtained are from laboratory conditions and at 27 ± 2°C and humidity at 65±5% R.H. . On site tests may show slight variation due to site conditions and / or methods of testing. Follow company TDS to obtain best results. Adhesive grade recommended for different tile/stone sizes are subject to thickness & weight of tiles / stone , application area , environmental conditions and application height etc. Refer TDS / contact our technical team for details.

APPLICATION METHODS:

1. Surface Preparation

All surfaces must be clean, dry and free from any contaminants such as dust, oil, wax, grease, curing agents or other substances that may affect adhesion performance. Building debris such as off cuts, sawdust, nails, screws, plaster, wood etc., must be thoroughly cleaned with the help of wire brush - vacuum cleaner - damp sponge.

Note: If applying over existing tiles various preparation methods apply depending on surface & application. Do not apply over any deteriorating substrates. Ensure that new concrete slab have fully cured 7 - 14 days during weather conditions. Ensure that screeds have cured, normally after 7 days depending on screed thickness & temperatures. Ensure waterproof membranes have cured, minimum 24 – 48 hours after application.

2. Priming

FIXOBOND FLEX can be applied directly on concrete, cement plaster, screed and cement or mortar. When working on porous or high absorbent surfaces such as gypsum-based materials, prime with **ASCOBOND/ASCOBOND AR**, Water & OPC (In the ratio of 1:2:1) using by brush or roller. Allow primer to reach a touch dry film prior to applying **FIXOBOND FLEX**. Extremely porous surfaces may require second coat.

3. Mixing

Pour approximately 4.8 to 6 liters of water (for grey) and 5.4 to 6.6 liters of water (for white) in a clean container and gradually add 20 kg of **FIXOBOND FLEX** adhesive in stirring condition. (Slight water can be added in hot weather condition) Using a mechanical mixer at medium to high speed, mix powder and liquid additive together until smooth

paste consistency is achieved. Allow to set a few minutes, re-mix before applying. Adhesive should not slump when combed out using the appropriate notch trowel.

4. Application

Tile installation must be undertaken in accordance with Indian Standard requirements. Ensure the back of the tiles to be adhered are free from dust or any materials which may inhibit adhesion.

- i. Spread **FIXOBOND FLEX** adhesive over prepared surface/substrate using an appropriate notch trowel.
- ii. When installing wall and floor tiles, lay one tile over adhesive then lift tile up again. Finished bed thickness should be a minimum of 4 mm for wall tiles and 3-6 mm for floor tiles.
- iii. Ensure all tiles are fully supported by adhesive and that no void is present.
- iv. Inspect the underside of tile for complete bedding adhesion.
- v. Clean excess adhesive from the joints and face of the tiles before reaching the open time of the adhesive.
- vi. Ensure minimum grout joints of 1.5 – 3 mm spacing between tiles. Larger joints required for quarry / stone tiles. Refer to tile manufactures specifications.

Allow it to dry undisturbed for 24 hours prior to foot traffic and grouting.

Substrates: Compatible with most solid substrates such as concrete, masonry, plaster board, fibrous cement sheeting, renders & screeds. All substrates should be pre-tested to ensure suitability.

5. COVERAGE

2.5 - 3 ft² @ 3-4 mm thickness per Kg.

(Use 6mm x 6mm notches depending up on substrates and weight of tiles/ stone)

6. CLEAN UP

Remove excess adhesive from tile face and tools using a damp cloth whilst material is still wet. Wash all tools in warm soapy water immediately after use.

7. PACKAGING

Available in 20 Kg, 30 Kg & 50 Kg plastic lined bags.

8. SHELF LIFE

12 months from the date of production if stored in original, unopened packaging & in places protected from moisture, sun exposure and frost.

DISCLAIMER:

While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at www.ascolite.in. Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.