

TECHNICAL DATASHEET

FIXOBOND

Polymer Modified, Medium/Thin Set Adhesive for Tile on Tile Applications



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PRODUCT INTRODUCTION

A grey cement-based polymer modified tile adhesive suitable for application on concrete/cement-plastered substrates on interior wall & floor surface for fixing ceramic tiles, vitrified tiles, tile on tile etc. with small to Medium profile. **FIXOBOND** surpasses the requirements of IS 15477: 2019 (Type 1). It can be mixed with **FIXOBOND AD** to improve the adhesion and flexibility.

KEY FEATURES

1. For external and internal use.
2. Dual bonding strength.
3. Superior workability.
4. Can use thin and medium bed.
5. Easy to use.

RECOMMENDED APPLICATIONS

1. Installation of ceramic tiles on floor & walls
2. Can be used over concrete, cement render, screeds etc.
3. Can be used on liquid applied waterproofing membranes directly
4. Installation of porcelain tiles and Vitrified tiles of small profile etc. Size of tile up to 8 ft². Weight of tile/ stone up to 40 kg/m² - subject to substrates properties.
5. Suitable for use in both internal and limited external applications.

TECHNICAL PROPERTIES* *(Complies to IS 15477:2019 (Type 1) and EN 12004)*

Appearance	Grey Powdered Mixture
Bulk Density	1500 ± 100 Kg/m ³
Water Demand	25 ± 5% by weight of Powder
Tensile Adhesion @ 28 Days	≥ 0.5 N/mm ² (Dry Condition - 28 Days)
Shear Adhesion	≥ 1.0 N/mm ² (Dry Condition – 28 Days)
Open Time	30 ± 5 minutes
Pot Life & Setting Times	1 hour ± 30 minutes
Adjustability	15 ± 5 minutes
Time to Traffic	24 Hours
Final Thickness	3mm – 12mm (Depending on Site Condition)

* The values obtained are from laboratory testing conditions and at 27 ± 2°C. On site tests may show slight variation due to site conditions and / or methods of testing. Follow company TDS to obtain best results.

APPLICATION METHODS:

1. Surface Preparation

All surfaces should be between 45° F(7°C) and 115° F (46°C) and structurally sound. This must be clean, dry and free from contaminants such as dirt, oil, wax, grease, curing agents or other substances that may affect adhesion performance. Building debris such as off cuts, sawdust, nails, screws, plaster, wood oil, grease and curing compound 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 and 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 and temperatures. Ensure waterproof membranes have cured, minimum 24 - 48 hours after application.

2. Priming

Porous Substrates: Prime with FIXOBOND AD, 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. Do not over dilute primer. Extremely porous surfaces may require second coat.

3. Coverage

2.50 – 3.00 ft²/Kg @ 3mm-4mm bed thickness/Kg
1.50 - 2.00 ft²/Kg @ 7mm-8mm bed thickness/Kg
(Use 6mm x 6mm to 12mm x 12mm notches depending up on substrates and weight of tiles/ stone)

4. Mixing

Pour approximately 21–29% of water in a clean vessel/container and gradually add 20Kg of **FIXOBOND** adhesive whilst mixing. (Slight water can be added in hot weather condition). Using a mechanical mixer at medium to high speed, mix powder and liquid additive together till it gets smooth paste & consistency is achieved. Allow it to set for a few minutes, re-mix before application. Adhesive should not slump when combed out using appropriate size notched trowel.

5. Application

Tile installation should be undertaken as per Indian Standard requirements. Ensure the back of tiles are free from dust or any materials which may inhibit adhesion.

- i. Spread **FIXOBOND** adhesive over the surface/ substrate using an appropriate notched trowel.
- ii. When installing wall and floor tiles, lay one tile over adhesive then lift tile up again. The bed thickness after completion should be 4mm for wall tiles and between 3mm-6mm for floor tiles.
- iii. Ensure all tiles are fully supported by adhesive without any voids.
- iv. Inspect the underside of tile for complete bedding adhesion.
- v. Clean any excess adhesive from the joints and from tiles when till it remains wet.
- vi. Ensure the grout joints be of 1.5mm - 3mm spacing between tiles.
- vii. Allow it to dry for 24 hours prior to foot traffic and grouting.

SUBSTRATES

It is 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.

CURING

Adhesive begins to set after an hour & is trafficable approximately 4-6 hours (longer if temperature do not exceed 10°C) after installation depending on air and substrate temperature. Grouting generally is best 24 hour after tiles have been installed. Optimum performance level is acquired after 28 days of curing.

PACKAGING

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

CLEAN UP

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

SHELF LIFE

12 months from the date of production if stored in original, sealed packaging and 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.