HITi
Construction Revolution

FUGABOND 1052

Technical Data Sheet



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DESCRIPTION

HITI FUGABOND 1052 is a premium cement-based adhesive designed to securely bond thermal insulation boards. Ideal for use with materials such as extruded polystyrene (XPS) and expanded polystyrene (EPS), this adhesive excels in providing robust and stable adhesion.

Infused with specialized polymers and polypropylene fibers, **HITI FUGABOND 1052** offers enhanced strength and durability, minimizing the likelihood of cracking and ensuring long-lasting performance.

Suitable for both indoor and outdoor applications, **HITI FUGABOND 1052** serves as an effective board adhesive and as a mesh-reinforced finishing coat. It delivers excellent bonding to cementitious surfaces, making it an excellent choice for a variety of construction needs on walls and floors.

Uses

- **Adhesive Applications:** Ideal for securing XPS, EPS, and Fuga boards to walls, floors, and ceilings.
- **Concrete Bonding:** Effective for adhering polystyrene to concrete and other smooth surfaces.
- **External Finishing:** Perfect for applying a mesh-reinforced finishing layer over polystyrene and styropor boards.
- **Facade Bonding:** Suitable for bonding foam boards on building facades.

Advantages

- **Ready-to-Use Formula:** Pre-mixed and easy to apply — just add water.
- **Strong Adhesion:** Delivers exceptional bonding strength to smooth surfaces like XPS, EPS, foam, and Fuga boards.
- **Stable Performance:** Resists falling, collapsing, or shifting once set.
- **Flexible Application:** Offers high flexibility during application for better handling.
- **Weather-Resistant:** Durable in various weather conditions.
- **Chemical and Salt Resistance:** Highly resistant to salts and chemicals, ensuring long-lasting performance.
- **Crack Prevention:** Contains fibers that help prevent cracking.

Application Process

Preparing the Surface

Begin by ensuring that the surfaces are thoroughly clean and dry. Remove all traces of dust, oil, grease, and other contaminants. Address any existing cracks or defects with suitable concrete repair materials.

Mixing Instructions

For optimal results, blend **HITI FUGABOND 1052** with water at a 26 % ratio by weight (6.5 L of water per 25 kg bag). Use a slow-speed drill to mix for at least 5 minutes until a smooth, homogeneous, and lump-free paste is achieved.

Applying the Adhesive

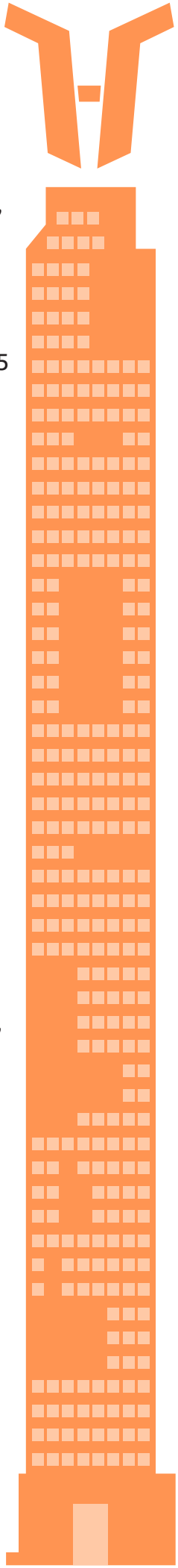
- **For Insulation Boards:** Apply **HITI FUGABOND 1052** on the substrate and on the back of the insulation boards (double spread) using a 6 mm notched trowel (6 – 12 mm notched trowels may be used). Standard thickness: 6 mm; maximum 12 mm. Place the board onto the wall and press firmly to ensure the adhesive is evenly spread.
- **For External Cladding (finishing coat):** After allowing the boards to set for a minimum of 24 hours, apply a layer of **HITI FUGABOND 1052** over the boards' exterior with a trowel. Embed the fiberglass mesh into this layer and press it into place, then apply an additional layer over the mesh to ensure full coverage. Standard total thickness: 2 mm; maximum 6 mm.
- To achieve a smooth surface, select a mortar of appropriate quality and thickness. Allow the surface to cure for at least 5 days before applying any final paint or exterior finishes.

Post-Application Protection & Suggestions

- **Usage Window:** Ensure the prepared mortar is used within 2 hours of mixing (at 25 °C).
- **Mechanical Fixing:** Boards should be mechanically secured after a minimum of 24 hours, although this may vary depending on ambient temperature and surface characteristics.
- **Consumption:** approx. 8.6 kg/m² for board bonding at 6 mm, and approx. 2.9 kg/m² for the 2 mm finishing coat. These are averages and may differ based on application conditions and surface types.
- **Health and Safety:** As the product contains cement, it may cause irritation to the eyes, respiratory system, and skin. Refer to the safety data sheet for detailed information.

Storage

- **Conditions:** Store the product in a dry and cool environment, between +5 °C and +35 °C. Keep away from direct sunlight.
- **Protection:** Ensure packages are protected from water, frost, and adverse weather conditions.
- **Stacking:** Do not stack more than 10 bags on top of each other.



- **Shelf Life:** The maximum shelf life is 12 months, provided that storage conditions are maintained as described.

Property	Value
Consistency	Pasty
Color	White, Grey
Mix Density	1.8 g/cm³
Tensile Adhesion Strength (28 days)	1 MPa
Initial Dry Time	6 Hours
Complete Dry Time	24 Hours
Pot Life	2 hours / 25 °C
Application Temperature	(+5 °C) – (+35 °C)
Mixing Ratio	26 % water (6.5 L per 25 kg bag)
Thickness – board adhesive	Standard 6 mm (double spread, 6 mm notched trowel) · up to 12 mm
Thickness – finishing coat with mesh	Standard 2 mm · up to 6 mm
Notched trowel	6 – 12 mm
Consumption	~8.6 kg/m² (6 mm) · ~2.9 kg/m² (2 mm)
Mechanical fixing / finishing coat	After at least 24 hours
Paint or exterior finish	After at least 5 days curing
Packaging	25 kg Bags