

ISO-THERM BOND PLUS

Ready to use adhesive for Iso-therm Membrane ultra thin wall insulation

BENEFITS AND FEATURES

- Ready-to-use
- Quick drying (≤ 24 hours)
- Can be applied on plaster, plasterboard, sand and cement render, concrete, masonry and painted surfaces
- New polymer technology to enhance bond strength

DESCRIPTION

A ready-mixed adhesive with polymer technology to impart a quicker drying rate and an improved early bond strength development.

WHERE TO USE

Iso-therm Bond Plus is designed and manufactured for internal use with **Iso-therm Membrane** an ultra-thin wall insulation (TIWI) material for damp control. This adhesive can be used on plaster, plasterboard, sand and cement render, concrete, masonry and painted surfaces.

APPLICATION PROCEDURE

Surface Preparation

All surfaces must be clean, firm and free of dust, dirt, oil, grease and loose flaking material. Surfaces must be flat, plumb. Irregular surfaces must be prepared prior to the application of the adhesive.

Finishing plasters should be at least 4 to 6 weeks old, thoroughly dry and wiped clean of dust, efflorescence and loose flaking material. Highly polished (shiny) plaster surfaces should be roughened with a stiff brush or lightly sanded to create a key, then remove all loose fines. All porous masonry surfaces should be primed with **SBR Latex Bonding Agent** diluted as 1 part to 3 parts with water and allowed to dry. Can be applied to brick walls, although this will significantly decrease the coverage area of the product. Can be applied to both matt and silk painted surfaces - silk painted surfaces should be lightly sanded to create a key, then remove all loose fines.

Application

NOTE: Contents may have settled in transit. Mix through to a uniformed paste prior to application.

Iso-therm Bond Plus should be applied to a maximum bed depth of 3 mm using a 6 mm notched trowel to form horizontal ribs on the wall surface before pressing the **Iso-therm Membrane** into the adhesive by hand and roller. Only apply enough adhesive to an area that can be covered with the **Iso-therm Membrane** within a 20-minute period. Excessive depth of adhesive will lead to prolonged drying times and slower strength development.

Wet the darker side of the roll with water using a spray. Wait about 2 minutes, then place the **Iso-therm Membrane**, making sure to stick the light side of the roll to the substrate, pressing it first with hands and then roll flat with a suitable roller to eliminate any air bubbles. Place the membrane sheets side by side, avoiding overlapping.

Tap all joints between rolls of **Iso-therm Membrane** with extra sticky scrim tape. Allow **Iso-therm Bond Plus** to dry for a minimum of 24-hours. Finish with an application of multi-finish plaster directly onto the **Iso-therm Membrane**.

Application Conditions and Limitations

- Open time of the exposed ribbed adhesive bed is no more than 20 minutes at +20°C.
- Newly plastered or rendered walls require a minimum of 28-days drying time after initial application.
- If plaster or plaster boards have been treated with a surface biocide, such as **MCSI Mould Clear Concentrate** (for professional use only) or a cleaning solution such as **Ultracare Deep Cleaner**, allow 24 hours drying time when room is of an ambient temperature, before proceeding with the application of **Iso-therm Bond Plus**.
- **Iso-therm Bond Plus** should not be applied when the room temperature is below +5°C or likely to be that low in the 24 hours after fixing.
- **Iso-therm Bond Plus** adhesive is not suitable for exterior use
- Always use a notched wall trowel to ensure the adhesive bed depth does not exceed 3 mm.
- **Iso-therm Membrane** should never be spot fixed. Ensure 100% coverage between **Iso-therm Bond Plus** and the **Iso-therm Membrane**.

For further technical advice, please contact Mapei Technical Department.

CLEANING

Clean all tools immediately after use with clean water. Tools coated with hardened/cured material can prove very difficult to remove.

CONSUMPTION

Depending on surface conditions, a 5 mm notched trowel application will typically cover 7 m² per 15 kg bucket, or at a coverage rate of 2.2 kg / m².

PACKAGING

Iso-therm Bond Plus is supplied in a 15 kg bucket.

STORAGE

Iso-therm Bond Plus should be stored in dry conditions, off the ground, between temperatures +5°C and +35°C, where it will have a maximum shelf life of 12 months in the original unopened packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.co.uk

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (Typical values)

PRODUCT IDENTITY

Consistency:	thick paste
Colour:	grey
Density:	1.65 g/m ³
Viscosity (Pa·S):	700 - 1000
Application temperature:	+5°C to +35°C
Open time:	20 - 30 minutes
Shear adhesion strength according to EN 1324 (N/mm ²):	
- initial shear strength:	> 1
Shear adhesion strength after heat ageing (N/mm ²):	> 1

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.co.uk

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