

ExperTherm TB 20

COLOR OPTIONS: Grey

25
±%2 KG

Heat and Sound Insulation Materials

13566 103325

GÜVEN MADENCİLİK İNŞAAT SAN. ve TİC. A.Ş.

CEMENT BASED ADHESIVE FOR THERMAL INSULATION BOARD

Cement based, single component adhesive for thermal insulation boards, containing polymer additives to improve product performance and workability.

**EASY TO
APPLY****EXCELLENT
BONDING**

TECHNICAL SPECIFICATIONS

Chemical Structure	Cement-based, polymer-added powder
Powder Density	~ 1,50 gr/cm³ (±0,1)
Granulation	1 mm elek üstü ≤%1 (TS EN 1015-1)
Water Mixture Ratio	6,00-6,50 lt water / 25 kg powder
Mass per Unit Volume of Fresh Mortar	1.500 kg/m³ (±100)
Mass per Unit Volume of Hardened Mortar	1.250 kg/m³ (±200)
Pot Life	3 hours
Crusting Time	15 minutes
Bond Strength to Substrate	≥0,5 N/mm² (TS EN 1015-12)
Bond Strength to Thermal Insulation Board	≥0,08 N/mm² (TS EN 13494)
Compressive Strength	≥6 N/mm² (EN 1015-11)
Bending Strength	≥2 N/mm² (TS EN 1015-11)
Water Absorption	At 30 minutes ; ≤5 g At 240 minutes ; ≤ 10 g (TS EN 12808-5)
Reaction to Fire	A1
Consumption	4,00-6,00 kg/m²

* All technical values are calculated at +23°C and 50% relative humidity.
Changes in temperature and humidity change the technical values.

ADVANTAGES

- Easy to apply.
- Provides excellent bonding.
- High flexibility.
- Provides high stability, no sagging and cracking.
- Resistant to thermal shocks, water and frost.

APPLICATION AREAS

Used as an adhesive mortar:

- In interior and exterior facades,
- On mineral based surfaces of buildings such as cement based plaster, brick, gas concrete, exposed concrete,
- For bonding applications of EPS, XPS and rock wool thermal insulation boards.

SURFACE AND APPLICATION CONDITIONS

- The application surface must be cured.
- Ambient temperature should be between +5°C and +35°C.
- Avoid application in humid, rainy and high temperature weather conditions.
- Do not apply on surfaces that are frozen, melting or in danger of rain or frost within 24 hours.

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SURFACE PREPARATION

- The application surface must be clean, moist, smooth and solid. Dust, dirt, paint, oil and free particles must be removed from the surface.
- If there are any damages on the surface that may affect the application, should be repaired with ExperRepair repair mortar 24 hours before the application.
- The application surface should be wetted and kept moist.

PREPARATION OF MIXTURE

- ExperTherm TB 20 thermal insulation board adhesive material should be added slowly into 6,00-6,50 lt clean water and mixed with a mixer at low speed until a homogeneous and lump-free mixture is obtained.
- The prepared mixture is allowed to rest for 5-10 minutes depending on the weather conditions, then mixed again for 1-2 minutes and made ready for use.

APPLICATION DETAILS

- If the surface is not smooth, ExperTherm TB 20 Adhesive for Thermal Insulation Board is applied with a notched trowel on the back of the thermal insulation board and along the entire edge (approx. 5 cm wide) without interruption and in 3 large pieces in the center of the board in a dotted manner and the boards are adhered by pressing them to the surface.
- If the surface is smooth, ExperTherm TB 20 thermal insulation adhesive mortar is applied on the back of the thermal insulation board with a notched trowel and the boards are adhered by pressing them to the surface.
- Make sure that at least 40% of the surface of the insulation board is covered with adhesive mortar.
- Clean the adhesive mortar overflowing from the sides of the thermal insulation boards and make sure that there are no gaps left between the boards.
- Check with a water gauge or ruler whether the plates are at the same level during the bonding.
- Mixed mortar should be consumed within 3 hours.
- Doweling of the bonded boards should be started 24 hours after the bonding application.
- Plaster application can be done after 48 hours depending on weather conditions.

WARNINGS

- Do not apply in weather conditions below +5°C, above +30°C, in rainy and/or windy weather.
- Avoid application in areas that are frozen, in areas with the risk of freezing within 24 hours, in conditions that may prevent the application or that may damage the surface after application.

CONSUMPTION

- 4,00-5,00 kg/m²

EQUIPMENT CLEANING

- Equipment should be cleaned with clean water immediately after use. Cured material can only be cleaned by mechanical means.

STORAGE AND SHELF LIFE

- Should be stored in its unopened original packaging, in a closed, moisture-free, dry environment, protected from frost. Products should not be overloaded in a way to damage their packaging.
- Shelf life under appropriate storage conditions is 12 months from the date of production.

SAFETY PRECAUTIONS

- During use and storage, work clothes, protective gloves and masks should be used in accordance with the rules of Occupational and Labor Health. Eye, mouth and skin contact should be avoided and the contact area should be washed with plenty of water.
- In more dangerous situations or in case of ingestion of the product, a specialist doctor should be consulted immediately. Food and beverages should not be brought into the application areas. Keep out of the reach of children. For detailed information, the Safety Data Sheet (SDS) should be consulted.

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PRODUCT LIABILITY

• Güven Madencilik İnş. San. ve Tic. A.Ş., is only responsible for the quality of EXPERAS branded products. All data presented are the result of practical and scientific studies. The manufacturer cannot be held responsible except for the use of the correct products in appropriate areas and conditions.

LEGAL NOTES

• The information and recommendations for the use of EXPERAS branded products are provided in good faith based on technical knowledge and experience, provided that they are maintained and handled under normal conditions and in accordance with the recommendations. Along with the products, the areas of use and surfaces may vary widely. It is necessary to ensure that the correct EXPERAS branded products are applied on appropriate surfaces and under appropriate conditions. In addition, all information and instructions regarding commercial factors and technical conformity must be strictly followed. The manufacturer cannot be held responsible for any damages and problems that may occur if not complied with. The applicator/user is obliged to make the relevant checks to ensure these details. The specifications of EXPERAS branded products may be changed when necessary. The property rights of third parties must be respected. When the order is confirmed, all existing technical conditions are essential for sales and transportation.

REFERENCE STANDARDS

• TS EN 13566

