

Polystyrene Sheet Adhesive

Product Overview
CLASS THERMAL YP is a high-performance adhesive mortar that is cement-based, single-component, and polymer-modified, specifically formulated for bonding thermal insulation boards.

Application Domains

- Indoors and outdoors
- On the walls and ceilings
- Horizontal and vertical

It is utilized for adhering thermal insulation panels.

Technical Specifications

Intensity	1.72 kg/lt
Water Mixing Ratio	5 to 6 liters of water for 20 kilograms of powder
Rest	5-10 Minutes
Working Hours	1-1.5 seconds
Complete Drying	15 Minutes
Application Temperature	Between +5°C and +30°C

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original product rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.

Advantages

- It is straightforward to prepare and execute.
- It offers user-friendly functionality.
- It exhibits resistance to thermal shocks.
- Fireproof.
- It exhibits exceptional adhesion performance.
- It offers superior adhesion to surfaces including concrete, brick, aerated concrete, plaster, prefabricated materials, and panels.

Surface Preparation

Care must be taken to ensure that the surface has attained its full strength. It is essential that the surface is devoid of dust, oil, paint, and other substances that could hinder adhesion. Concrete, cement, and plaster must be dry and have completed their curing period. If the surface is highly absorbent or if the application occurs in hot weather, the surfaces should be dampened and maintained in a moist condition. For surfaces requiring repair, they should be filled and leveled with CLASS repair mortar 3-4 days prior to application.

Mixture

20 kg of CLASS THERMAL YP powder is combined with 5-6 liters of clean water and mixed using a low-speed mixer or drill for 3-4 minutes until the mixture achieves a homogeneous consistency and is free of lumps. The prepared mixture is then allowed to rest for 5-10 minutes to mature. Following maturation, the mixture should be stirred repeatedly until it is ready for use. It is advisable to utilize the mixture within 1-1.5 hours.

Application Details

CLASS THERMAL YP is utilized on the rear surfaces of thermal insulation boards. The method of application varies based on the condition of the surface and/or the type of thermal insulation board.

Combing technique:

This technique entails applying insulation to the entire rear surface of the insulation panel with a notched trowel. It is particularly advantageous for structures featuring a smooth surface.

Point application technique:

The application is performed around the periphery of the insulation plate, maintaining a 5mm gap at the rear and in three clusters at the center. At least 40% of the insulation plate must be covered. It is essential to avoid allowing the mortar to adhere to the side surfaces of the insulation plate. The bonding process should involve pressing down with a trowel to achieve the desired smooth finish. Mechanical doweling should occur 24 hours later, once the adhesive has fully cured.

Polystyrene Sheet Adhesive



Consumption

4 – 5 Kg/m²



PACKAGING

20 kg Kraft Bag



Shelf life

In its unopened packaging, it can be stored for 12 months in a cool, dry location, shielded from sunlight, at temperatures ranging from +10°C to +25°C.



Attention

Avoid applications when the ambient temperature is below +5°C or above +30°C. Do not apply in direct sunlight, rain, or wind. Refrain from applying on surfaces that have been exposed to sunlight for extended periods, are frozen, or are at risk of freezing within 24 hours.

R10: Keep away from children.

R20/22: Harmful if inhaled or ingested.

R52/53: Toxic to aquatic life; may result in long-term detrimental effects in the aquatic ecosystem.

R65: Harmful. May result in lung damage if ingested.

S7: Store in a securely sealed container.

S24/25: Avoid contact with eyes and skin. S28: In the event of skin contact, rinse immediately with ample water.

S29: Do not release into the sewage system.

S46: If ingested, seek medical attention promptly and present the container or label.

LEGAL NOTICE

The information provided herein regarding BENZKİM CLASS products, particularly the recommendations concerning their application and end use, is presented in good faith based on BENZKİM CLASS's current knowledge and experience under standard conditions, provided that these products are stored and applied correctly in accordance with BENZKİM CLASS's guidelines. The variability of products, application surfaces, and application areas in practice is significant. Therefore, when utilizing BENZKİM CLASS products, it is imperative to apply the appropriate product under the correct conditions and in the designated location, while strictly adhering to the information and instructions provided by BENZKİM CLASS regarding commercial suitability and/or suitability for a specific purpose. Failure to do so may result in BENZKİM CLASS being absolved of any responsibility for potential damages. The product user is responsible for testing the product's suitability for the intended application and purpose. BENZKİM CLASS reserves the right to modify the properties of its products. The rights of third parties must be duly respected. All orders are accepted in accordance with our current terms and conditions pertaining to sales and shipping. Users are encouraged to consult the latest version of the local Product Information Sheet for the relevant product, which can be obtained by contacting BENZKİM CLASS.