TAG™

Thermal Acoustic Insulation Gypsum

AFZIR
Advanced Solutions
Strengthening Company

PRODUCT DESCRIPTION

TAG™ is an advanced construction material designed to enhance both thermal and acoustic performance in buildings. Similar to Plaster Gypsum Perlite, it consists of retarded gypsum combined with Perlite (30-40%) and selected aggregates, augmented by specific additives to improve its insulating properties. This product is supplied as a dry powder in pre-weighed bags, ready for use on-site with the simple addition of clean water to create a consistent, cohesive mixture. Thermal Acoustic Insulation Gypsum not only acts as an effective underlayment for various construction applications but also significantly improves energy efficiency and soundproofing, making it an ideal choice for modern construction projects and even wall mesh plaster that demand high-quality insulation and noise reduction solutions.

Thermal Acoustic Insulation Gypsum - TAG™

PRODUCT FEATURES

- Excellent sound and thermal insulation
- Low thermal conductivity
- Strong adhesion to various substrates
- Easy application and convenience in use
- Lighter specific weight
- Reduced installation time
- Requires only the addition of water on-site at the time of usage

PRODUCT USES

- Installation of wall posts with fiberglass mesh.
- Plastering of walls, ceilings, and other interior and Exterior building components.
- Enhancing thermal and acoustic insulation in residential and commercial buildings.
- Providing a smooth and durable underlayment for decorative finishes.
- Soundproofing rooms and spaces in homes, offices, and public buildings.
- Creating fire-resistant barriers in critical areas of buildings.
- Reduced installation time Requires only the addition of water on-site at the time of usage.
- Internal plaster on block walls and rough surfaces.
- Plastering on fairfaced concrete and precast panels.
- Tiling

TECHNICAL DATA	
Physical form	White powder
Initial setting time	20–30 minutes
Final setting time	40-55 minutes
PH of the Mix	13-14
Consumption amount	8.5–10 kg/m2 for 1 cm thickness
Unit volume weight	750 g/l
Compression strength	≥ 2 N / mm2 (after 7 days)
Bending strength	≥ 1 N / mm2 (after 7 days)
The ratio of water powder	5 to 7 scoops

HOW TO USE

SURFACE PREPARATION

The surface must be thoroughly cleaned of dust, dirt, oil, and any loose material. Any holes and cracks should be repaired beforehand to ensure a smooth application. The surface should be wetted according to its water absorption capacity; for highly absorbent surfaces such as concrete, extra attention should be given to proper wetting, especially in hot weather conditions. Form oil must be completely removed from exposed concrete surfaces. Before applying Thermal Acoustic Insulation Gypsum, wet the entire surface with clean potable water and allow it to dry to achieve optimal adhesion and performance.

PREPARING THE MIX

Add 7 liters of water per 10 kg of gypsum into the container first, then add the gypsum plaster. Allow it to sit for two minutes to absorb the water. Mix thoroughly with a hand mixer or trowel until achieving a uniform, lump-free consistency. Let the mixture stand for 5 minutes, then briefly remix without adding extra water. The mixed material should be used within 30 minutes, and no additional water should be added once it starts to stiffen.

APPLICATION OF THE MIX

Apply Thermal Acoustic Insulation Gypsum (TAG™) using a single coat method. It can be directly applied to block walls and rough surfaces. Use a spray machine or trowel technique to apply the mix to the desired thickness, which should be between 5 mm and 2.5 cm. Fill in holes using lightweight leveling tools in conjunction with a trowel. Once the plaster lightly stiffens, smooth the surface to eliminate any protrusions or undulations. Let the plaster set for about 30 minutes, then use a wet sponge to achieve a creamy smooth finish. Approximately one hour later, when the plaster has hardened sufficiently, use a steel trowel to remove burrs and smooth the surface.

CONSUMPTION

TAG™ has a consumption rate of 8.5–10 kg/m2 for 1 cm thickness. The layer should be 5 mm to 2.5 cm

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thick. If a second layer is required, it should be applied after the first layer has fully dried.

LIMITATIONS

- Always mix with clean fresh water.
- It may be harmful with skin contact
- Do not use when air and surface temperatures are below +5°C and above +35°C.
- Avoid heavy traffic for 24 hours

STORAGE

stored in a dry place, is stable for at least 12 months in original, unopened package.

HANDLING

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling fabrics and resins to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing / gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

CLEANUP

Clean equipment with water immediately after use. Dried material can only be removed mechanically**.**

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.
AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.
The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.

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