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Eco Bohemia LLC

Perlite Dry Construction and Insulation material

Thermal conductivity	0,055-0,09 W/mK
Fire protection class	A1
Pressure coefficient	1,6 – 4,0 N/mm ²
Bulk density	230-590 kg/m ³
capillary absorption coefficient	>0,30 [kg/(m ² .min0'5)]
Water vapor permeability Wvp	0,033.10-10 [kg/m.s.Pa]
Adhesion	0,2-0,5 [N/mm ²]
Porosity	>55%

Product:

Factory-mixed dry ready-made insulation construction material for automatic and mechanical processing of any surface, for internal and external walls, ceilings and floors; It is also used to stretch the roof, following the necessary waterproofing rules.

Product advantages are:

- Environmentally friendly product;
- High thermal insulation;
- A1 class fire resistance;
- Air permeability;
- Sound insulation;
- Grip strength - can be used on any kind of surface;
- Resistance to cracking;
- Protection from mold and fungus;
- Lightness of the material.

Applicable thickness	thickness from 1 cm to 12 cm., in layers, according to ambient temperature and following the instructions
Spending rate	approx. 2.0 - 2.5 m ² /1 cm
Construction solution group	from P I to P II. According to DIN V 18550
Sound-absorption coefficient	17dB (2cm/500 Hz)
Outward appearance	white, gray
Processing temperature	+5 / +25° C
Processing method	mechanical, automated
Form of packaging	5-7-8-9-10-12-15 kg, 25 liter sacks
Shelf life	12 months
Composition	cement, perlite, foam glass (expanded glass) and other ecological pure additives
Quality guarantee	self-control by our laboratory, in accordance with State Standard Specification

Description of Product:

„Termohub Econom” is ready-made, dry solution, to be used for automatic and mechanical processing of any surface, for internal and external walls, ceilings and floors; It is also used to stretch the roof, following the necessary waterproofing rules. The said product contains expanded perlite, cement, natural silicates and inorganic additives. „Termohub Econom” provides fire, noise and heat insulation. It is produced in line with European standards. It is ecologically clean product, does not contain supplements being harmful for human health and environment. It is produced by observing the established technical standards.

Field of appliance:

„Termohub Econom” is used for automatic and mechanical processing of any surface: All types of block, brick, concrete and metal structures, plastic, wood, glass, etc.

Characteristics:

„Termohub Econom” prevents the spread of fire, as well as the release of gas and smoke in the fire. It is resistant to water and moisture. Prevents the formation of mold and fungus and at the same time helps the air permeability in the building. It has a positive effect during the existence of the building. It is easy to use and does not require special work. The surface can be plastered either mechanically/manually or by means of a spraying machine.

How to use:

In order to remove dust and mechanical particles, it is recommended to wash the surface with water, a special solution or treat it with primer. At first, pour 2 liters of room temperature water into a clean container and gradually add the dry mixture, mixing with a mixer, the power of which should not exceed 500-600 rpm. The remaining water should be added to the mixture in small amounts, until a uniform mass is obtained. It is not allowed to thin the mass. About 0.6-0.8 liters of water is needed to prepare one kg of dry mixture.

Plastering

Wall surface should be maximally even, cleaned from the dust and extra particles.

Guides (so-called "beacons") are properly attached to the wall with plaster.

The product is easy to use, does not require special work and skills.

The texture can be applied or polished on the plastered wall 1-5 hours after plastering, depending on the thickness of the mixture applied to the surface and the ambient temperature.

The period of complete drying of applied plaster layer in dry climate conditions, if the temperature is higher than +20°C, is 3-10 days (layer thickness 3-12 cm);

The period of complete drying of applied plaster layer in conditions of humid climate, if the temperature is from +5°C to +20°C, is 7-20 days (the thickness of layer is 3-12 cm).

It is possible to paint the wall or perform other finishing works (wall-papering, plastering, painting, etc.) only after the plaster has completely dried.

Usage conditions:

The ideal temperature for use is between +5 and +25°C, however, work can also be carried out at a temperature of +35°C, with process monitoring, which means observing the drying process.

Storage condition:

Shelf life is 1 year, in dry and non-moist conditions.

Automatically/Machinery plastering:

Appropriate equipment is used when polishing with a machine. Hoses of different diameters and lengths may be used. In addition, compliance of the machine/sales machine with the manufacturer's recommendations should be considered.

Safety Measures

See safety and hazardous measures on the Safety Information Card.

General directives:

The data sheet has been compiled with care and accuracy, however, the user is not released from the responsibility to check the suitability of the product for his own purposes before using it.

Our products, like each raw material used, are subject to continuous supervision, which ensures constant quality control.

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Attachments to the passport:

1. Quality management system ISO 9001:2015
2. Environmental management system ISO 14001:2015

3. Occupational health and safety management system 45001:2018

Safety Information Card

Date of compilation: 01.06 2023

Product: „Termohub Econom” – Perlite dry construction and Insulation material

Full text size: 9 pages

Chapter 1. Description of substance/mixture and company

1.1. Product identifier:

Product Application form: Mixture.

Trade name: „Termohub Econom”

1.2. Use of the mixture: Dry mortar for dilution in water.

2. „Eco Bohemia” LLC

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Chapter 2: Hazard Identification

2.1 Labeling elements

Precautions (CLP):

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+P352- Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338 – if in eyes rinse cautiously with water for several minutes

remove contact lenses, if present and easy to do. Continue rinsing

P332+P313 – if necessary: get medical advice/attention

2.3. Other damages: no data

Chapter 3. Summary/Data on components

3.1 Substances not found, as long as it is a mixture product (see par. 3.2.)

3.2. Mixture:

Name	Description of product/mixture	Definition according to norm
Foam glass (expanded glass)	(CAS Nr) 65997-17-3	not classified
Perlite	(CAS Nr) 130885-09-5 (EU Nr) 603-442-8	not classified
Portland (white or grey) cement	(CAS Nr) 65997-15-1 (EC Nr) 266-043-4	H315 eye irritation
Limestone filler	(CAS Nr) 1317-65-3	not classified

Several ecological pure additives		not classified
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Chapter 4. First aid measures:

4.1. Description of first aid measures:

First aid measures at inhalation: take to fresh air and make breath.

First aid in case of skin contact: wash skin thoroughly with water. Remove dirty clothes. In case of skin irritation: seek medical attention.

First aid in case of eye contact: rinse cautiously with water for several minutes. Obtain medical attention urgently.

First aid if ingested: Consult a doctor

Chapter 5. Fire-prevention measures:

5.1. Fire-extinguishing devices:

Mixture is inflammable neither at supplying, nor in the mixed condition. Thus fire-extinguishing devices and fire-preventive measures should be determined in accordance with the ambient conditions.

5.2. Special hazard of the substance and mixture:

None – product is neither explosive, nor flammable. It also does not cause fire with reference with other materials.

5.3. Fire-preventive directives.

No special fire-preventive measures are required. Do not let water in sewerage. Cool closed containers placed nearby flame with water.

Immediate measures in case of fire: try not to act without protective equipment. Use oxygen breathing equipment.

Chapter 6: Measures to be fulfilled in case of emergency mobilization:

6.1. Individual's safety measures, protective equipment and methods to be used in emergency situations.

6.1.1. For staff:

Emergency plan: avoid dust formation, not inhale dust, avoid eye and skin contact.

6.1.2. For customers:

Protective equipment: do not try to act without the protective equipment. Additional information may be obtained in Chapter 8 - „Definition and control of safety and personal protective equipment”.

6.2. Environment protection measures:

Avoid using in environment.

Chapter 7. Management and storage

7.1. Safety measures for safe use.

Safety measures for safe use: ventilate the working area well, avoid eye and skin contact, use personal protective equipment.

7.2. Safe storage conditions: keep in well-ventilated, cool place.

Chapter 8. Determination and control of safety /personal protective equipment:

8.1. Ensure good ventilation of the working area.

8.2 Personal protective equipment:

Hand protection: protective gloves.

Eye protection: protective glasses.

Skin and body protection: wear relevant protective clothes.

Respiration protection: if not sufficiently ventilated use relevant respiration equipment.

8.3 Determination and control of environmental safety: avoid using in nature.

Chapter 9. Stability and reaction

9.1. Reaction:

Product is not reactive in case of observing normal application, storage and management conditions.

9.2. Chemical stability:

Stable in normal conditions.

9.3. Possibility of hazardous reactions:

No hazardous reactions are known in case of application in normal conditions.

9.4. Avoidance conditions:

In case of recommended application and storage conditions - not available (see Chapter 7).

9.5. Incompatible materials:

No additional information is provided.

Chapter 10. Toxicological data

10.1. Information about toxic effect:

Acute toxicity (mouth) – not classified.

Acute toxicity (skin) – not classified.

Acute toxicity (inhalation) – not classified.

Skin irritation/scratching – causes skin corrosion.

Serious eye irritation/damage –causes serious eye damage.

Sensitiveness of respiratory ways or skin: not classified.

Embryological cells mutagen: not classified.

Carcinogenic: not classified.

Reproductive toxicity: not classified.

Aspiration damage: not classified.

Chapter 11: Ecological information

11.1. Serious toxicity of water: not classified

Chronic toxicity of water: not classified:

11.2. Persistency and possibility of processing:

No additional information is available.

11.3. Bioaccumulation potential:

No additional information is available.

11.4. Mobility on the ground:

No additional information is available.

Chapter 12: Information on the removal of waste

Methods of waste processing: considering the relevant directives.

Chapter 13. Information about the transport

According to ADR/RID/IMDG/IATA/AND directives.

13.1. According to UN Nr directives.

According to acting provisions the product does not represent as noxious one.

ADR	IMDG	IATA	AND	RID
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

13.2. Transport hazard class

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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13.3. Packaging class

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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13.4. Environmental hazard

Hazard for environment: No	Hazard for environment: No Sea pollution substance: No	Hazard for environment: No	Hazard for environment: No	Hazard for environment: No
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13.5. Special safety measures for the customer:

Road transport: No data is available

Sea transport: No data is available

Air transport: No data is available

Railway transport: No data is available

13.6. Demand for bulk load, according to Annex II, MARPOL 73/78 and IBC.

Chapter 14. Legal information:

14.1. Directives about safety, health and environment protection/ specific legal directives for substances or mixtures.

14.2. Relevant directives, norms and laws:

Ordinance about protection from noxious substances (Ordinance on noxious substances – Gef-StoffV).

Directives about banning poisons (Chem VerbotsV).

Ordinance about European norm about waste (Abfallverzeichnis-Verordnung – AVV).

Federal law on soil protection (BBodSchG).

Federal Law on Soil Protection and Waste Management (BBodSchV).

Technical Instruction on Fresh Air (TA LUft).

14.3. Water hazard class (WGK).

WGK1 (less water hazard).

14.4. Other Directives, restrictions and prohibitions:

Consider REACH – (EG) N 1907/2006, Annex XVII, N 47 (Chrome – VI).

14.5. Relevant TRGS:

TRGS 200 (definition and labeling of substances, mixtures and products).

TRGS 500 (Protective measures).

TRGS 559 (Mineral dust).

TRGS 519 (Storage of hazardous substances in non-stationary containers).

TRGS 900 (Occupational exposure limit values).

14.6. Legal insurance (GUV) relevant professional union rules (BGR):

BGR/GUV R 190 (Use of respiratory protective devices).

BGR 192 (Use of eye and face protective).

BGR 189 (Use of protective clothes).

BGR 195 (Use of protective gloves).

14.7. VCI- storage class: nonflammable solid substances, according to TRGS 510.

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