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Diathonite Thermostep.047 – thermal insulation floor screed

BGN 135.19 VAT INCLUDED

Diathonite Thermostep 0.47 is a revolutionary insulating material for floors that offers exceptional benefits. With the lightness and durability of its formula, it provides insulation from both cold and heat. Thanks to its unique cork composition, it offers leading heat and sound insulation. Additionally, Diathonite Thermostep 0.47 solves problems related to thermal bridges, guarantees a healthy environment and offers high living comfort.




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Introduction to Diathonite Thermostep 0.47

Diathonite Thermostep .047 is transforming the way we look at floor insulation. Combining the latest technology with reliable and natural materials such as volcanic lime and cork, this product represents the new frontier in floor insulation.

Key Benefits and Features

Advantages:

1. **Weight:** The product is **4 times lighter** than traditional flooring solutions.
2. **Insulation:** Offers **5 times better thermal insulation** than standard floors.
3. **Durability:** **6 times more resistant** at a minimum thickness of 3 cm.
4. **Flexibility:** Can be directly covered with different types of flooring.
5. **Fights humidity and mold:** Regulates humidity and prevents mold growth thanks to the alkaline properties of volcanic lime.
6. **Material handling:** Easy to apply, either by hand or by plastering machine.
7. **Fire safety:** Non-flammable product that does not emit smoke when burning.

Features:

1. **Composition:** The product combines volcanic lime and cork, which give unique properties to the material.
2. **Thermal properties:** Improves the thermal efficiency of the floor while maintaining its breathability.
3. **Application:** It can be used in new buildings or in reconstructions, including in cultural and historical monuments.
4. **Fire safety:** The product is non-flammable and does not emit smoke.

These benefits and features make Diathonite Thermostep .047 an ideal choice for anyone looking for a high quality and reliable floor insulation material.

Applications

- Diathonite Thermostep .047 is a floor insulation mortar designed for use in a variety of building projects. Here are some of the main uses of the product:
 1. **New Buildings:** Can be used as the main floor insulation in newly constructed residential and commercial buildings where excellent thermal and acoustic insulation is required.
 2. **Reconstructions:** Suitable for renovating old floors in existing buildings where improvement of thermal insulation and acoustic properties is required.

3. **Cultural and Historical Monuments:** Thanks to its lightness and excellent insulating properties, the product is ideal for use in old and protected buildings, where heavy and intrusive solutions are not desired or allowed.
4. **High Humidity Areas:** Because Diathonite Thermostep .047 regulates humidity and prevents mold growth, it is suitable for use in basements, bathrooms and other damp areas.
5. **Areas with High Sound Requirements:** Thanks to the acoustic insulation properties of cork, the product is ideal for use in cinemas, theaters, studios and other premises where sound insulation is required.
6. **Fire Protected Areas:** Because it is non-flammable and does not emit smoke, Diathonite Thermostep .047 can be used in areas with high fire safety requirements.
7. **Commercial Spaces:** In places with high traffic, the durability and resistance of the material guarantee long-term functionality of the floor.

These applications demonstrate the versatility and versatility of Diathonite Thermostep .047 as a floor insulation solution in a variety of environments and conditions.

What is he doing? Diathonite Thermostep 0.47 outstanding?

Diathonite Thermostep 0.47 features a number of unique properties and advantages that make it an outstanding choice for floor insulation:

1. **Multi-functionality:** It combines thermal insulation, acoustic insulation and humidity regulation in one product.
2. **Lightness:** Diathonite Thermostep 0.47 is 4 times lighter than traditional floor solutions, which makes it easier to transport, handle and apply.
3. **Exceptional Thermal Insulation:** The product is 5 times more insulating than standard solutions thanks to its special ingredients, such as cork.
4. **Durability:** Despite its light structure, it is 6 times more resistant at a minimum thickness of 3 cm.
5. **Unique Composition:** The combination of volcanic chalk and cork provides unique thermal insulation and acoustic properties.
6. **Health and Comfort:** The product's ability to regulate humidity and resist mold thanks to its lime base ensures a healthy and comfortable indoor environment.
7. **Fire resistance:** Diathonite Thermostep 0.47 is non-flammable and does not emit smoke, making it an ideal choice for buildings with high fire safety requirements.
8. **Conservation of Cultural Heritage:** The properties of the product make it ideal for the reconstruction of historic and protected buildings.
9. **Environmental friendliness:** The natural composition of Diathonite Thermostep 0.47 guarantees a minimal impact on the environment.

These properties make Diathonite Thermostep 0.47 extremely suitable for a wide range of applications and provide long-term benefits for both builders and end users.

Conclusion

In conclusion, Diathonite Thermostep 0.47 represents a new generation of insulation materials that revolutionizes the way floors are insulated and protected. Combining natural ingredients such as volcanic chalk and cork with modern technological innovations, it offers a solution that is both efficient, sustainable and ecological. Its performance in thermal and acoustic insulation, combined with its lightness, strength and additional health benefits, make it an ideal choice for any modern building project. Diathonite Thermostep 0.47 is not just an insulation material, it is an investment in the future of buildings that will last, be healthy and offer comfort and safety to their occupants.

Sound absorption

$\Delta L_w = 22 \text{ dB}$

$L'_{nw} = 58 \text{ dB}$

Thanks to the cork and the porous structure, the product achieves excellent levels of sound insulation from impacts.

Thermal conductivity



$$\lambda = 0.047 \text{ W/mK}$$

The extremely low lambda value implies insulation from both cold and heat, therefore solving problems related to thermal bridges and ensuring a healthy environment and high living comfort.

Thermal diffusivity



0.124 mm²/s

A low value of diffusivity (α) indicates a high degree of insulation from heat and thus provides greater comfort and savings in cooling in summer.

Class of non-flammability



A1

Classified in class A1 according to the UNI EN ISO 13501-1 standard. No flame generation and no smoke emission.

Breathability



$\mu = 4$

Thanks to the high permeability value (μ), the humidity inside the room is perfectly balanced, preventing the formation of molds and condensation.

Density



380 kg/m³

The lightness of the material, combined with its strength, sets it apart from the rest.

Mechanical power



5N/mm²

Gaps and gaps in the putty allow moisture and condensation to be absorbed and expelled.

Cost rate

3.9 kg / m² for 1 cm thickness

Quantity per package

18 kg

For downloading

ST171EN22350204 - Diathonite ThermoStep.047

PIEGHEVOLE thermostep047 WEB



Link to the manufacturer's website: <https://www.diasen.com/en/diathonite-thermostep-047/>

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