THERMAL PAINT

THERMAL PAINT is an elastomeric resin-based, contains special vacuum microspheres, have vapor-permeability, water-based, a low thermal conductivity, high sunlight absorbency, and high surface heat transmission value. Its activity is scientifically proved special insulating paint which provides the thermal and water insulation in the interior and exterior facades. It provides energy savings to buildings of up to 40% depending on the application layers number in heating and cooling energy costs. When the ISONEM THERMAL PAINT with special vacuum microspheres is used as interior wall paint, it reflects the radiant heat generated inside to the interior environment, and when it is used on the exterior, the incoming radiant heat is reflected back to the outside. When used on roofs, it reflects a minimum 80% of the sun’s rays thanks to its ceramic-reinforced formula. While the water never passes from the film surface applied Isonem Thermal Paint, the moisture inside the building evaporates away from the structure.

PROPERTIES
- Radiant heat proof.
- Saves up to 40% energy.
- Applicable to internal and external surfaces.
- Labor costs are low and easy to apply.
- It prevents the formation of moisture and mold in the wall.
- It has water and sound insulation feature.
- It has low flammability and nonflammability.

APPLICATION INFORMATION
Surface preparation: Surfaces to be applied should be free of dust, oil, paste, grease, loose parts and other foreign materials. The appropriate primer selection for surface is made according to the following table. ISONEM UNIVERSAL PRIMER (1: 7 diluted with water - 1 part primer, 7 part water) insulation and paint primer should be applied one layer with 100 - 200 g/m² consumption. The primer is then allowed to dry for 4 hours.

Application method: ISONEM THERMAL PAINT must be mixed thoroughly before use. In exterior applications, 2 to 3 coats can be applied by roller or brush without diluting the product. It should be applied as 1 or 2 coats according to color and hiding power. It is recommended to apply 2 - 3 coats in roof applications. It is recommended that each coat be painted perpendicular to the previous coat. It can be applied by taking into consideration the drying processes. The second and third layer should be applied after the first layer has dried. Wait for 4 hours between two coats.

TECHNICAL SPECIFICATIONS
Certification: TSE K 127 THERMAL PAINTS
Class: COLD CLIMATE PAINT
Brightness: N/A (not applied)
Wet abrasion resistance (µm): CLASS II
Covering power (m²/L): CLASS I
Dry film thickness: CLASS E5
Grain size: CLASS S2
Permeability to water vapour (m): CLASS II
Water transmission rate (kg/m².h.o,5): CLASS W₃
Crack covering feature (µm): not required, CLASS A0
Carbon dioxide permeability (g/m².d): not required, CLASS CO
Surface heat transmission value (w/m².k): 0.023, λ<0.060
Sunlight absorbency value (α): 0.820, m²nt. 0.80
Carbon dioxide permeability (g/m².d): not required, CLASS CO
Permeability to water vapour (m): CLASS II
Dry film thickness: CLASS E5
Wet abrasion resistance (/uni03BCm): 100 - 200 g / m²
Brightness: N/A (not applied)

IMPORTANT
Consuming more or less can lead to inefficiency and side effects.
The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application.

APPLICATION CONDITIONS and RISKS

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<thead>
<tr>
<th>General Features</th>
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<tbody>
<tr>
<td>Hygienic, does not contain harmful substances</td>
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<tr>
<td>Helps to prevent mold and moisture formation</td>
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<tr>
<td>Helps to prevent condensation</td>
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<tr>
<td>Can be customized with color chart</td>
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<tr>
<td>UV Resistance</td>
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<table>
<thead>
<tr>
<th>Fire Class</th>
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<tbody>
<tr>
<td>B1, S1, D0</td>
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<table>
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<tr>
<th>Color</th>
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<td>White and all requested can be produced in colors.</td>
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CONSUMPTION: In interior applications; 1 L/m² (min. 1 mm thickness)

In interior applications: max. 300 mL/m².
PACKING: 5 L, 10 L and 18 L PP bucket. 5 L: 3.5 - 5 m²/bucket, 10 L: 7 - 10 m²/bucket, 18 L: 12 - 18 m²/bucket.
SHELF LIFE: 24 months from date of production if stored in original, unopened, undamaged packages.

STORAGE CONDITIONS: Store tightly closed in a dry and cool place.

Note: Drying times are approximate data, it may vary depending on ambient conditions.