THERMAL PAINT

THERMAL PAINT is an elastomeric resin-based, contains special vacuum microspheres, have vapor-permeability, water-based, a low thermal conductivity, high sunlight absorptivity, 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 late flammability and nonflammability.

APPLICATION INFORMATION
Surface preparation: Surfaces to be applied should be free of dirt, 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.

General Features
- Hygienic, does not contain harmful substances
- Helps to prevent mold and moisture formation
- Helps to prevent condensation
- Can be customized with color chart
- UV Resistance

APPLICATION CONDITIONS
and RISKS

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.

Storage
- Store lightly closed in a dry and cool place.
- Shelf life: 24 months from date of product/when stored or after opening, unopened, undamaged packages.

Technical Specifications
- Certification: TSE 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 E₁
- Grain size: CLASS S₂
- Permeability to water vapour (m): CLASS II
- Water transmission rate (kg/m².h): CLASS W₁
- Crack covering feature (μm): not required, CLASS A₁
- Carbon dioxide permeability (g/m².d): not required, CLASS Cₓ
- Surface heat transmission value (α): min. 0.80
- Sunlight absorptivity value (a): 0.820, min. 0.80
- Thermal paint surface resistance (RS): 0.0495 ± 1.5%
- Heat conductivity coefficient (W/mK): µ = 0.023, λ < 0.060
- Impact resistance: no cracking & rupture
- Density (25°C, g/mL): 0.85 ± 0.10
- pH (25°C): 7.0 - 9.0
- Viscosity (25°C, mPa.s): 12500 - 13500
- Color: White and all requested can be produced in colors.

Consumption:
- In exterior applications: 1 L/m² (min. 1 mm thickness)
- In interior applications: max. 300 mL/m².

Packaging: 5 L, 10 L and 18 L PP bucket.

Touch-Free Drying:
- 4 Hours
- 2 Hours
- 2 Hours

Dry Surface:
- 2 Hours
- 4 Hours
- 2 Hours

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