## 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 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. In steel/metal surfaces, the surfaced should be primed with ISONEM Anti Rust Primer (Anticorrosive primer), consumption of 0,250 - 0,350 kg/m².

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. In interior applications, 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

Density (25°C, g/mL)  $0.85 \pm 0.10$ 

· pH (25°C) · Viscosity (25°C, mPa.s) : 7.0 - 9.0 : 12500 - 13500 · Solid content (% Weight) · Water transmission rate (kg/ m². hº-s) 53 ± 2 < 0,1 CLASS W<sub>3</sub>

Crack bridging flexible systems without trafficking  $\geq 0.8$ 5  $\leq$  50  $\leq$  50 CLASS II TSE K 127 THERMAL PAINT · Adhesion strength by pull-off test (N/mm²) :

Permeability to water vapour (m) · Certification Class COLD CLIMATE PAINT Brightness N/A (not applied)

· Wet abrasion resistance (µm) CLASS II · Covering power (m²/L) · Dry film thickness CLASSI : CLASS S<sub>2</sub>

· Grain size · Crack covering feature (μm) · Carbon dioxide permeability (g/m<sub>2</sub>.d) not required, CLASS Ao not required, CLASS Co

· Surface heat transmission value ( ) min. 0.80 0.820, min. 0.80 0.0495 ± 1,5 % · Sunlight absorbency value (α) · Thermal paint surface resistance (RS) · Heat conductivity coefficient (W/mK  $0.023, \lambda < 0.060$ no cracking & rupture

· Impact resistance Solvent

: All requested can be produced in colors max. 300 mL/m<sup>2</sup> (in interior applications), 1 L/m<sup>2</sup> (for 1 mm thickness), 2 L/m<sup>2</sup> (for 2 mm thickness) Product consumption : 5 L: 3.5 - 5 m<sup>2</sup>/bucket, 10 L: 7 - 10 m<sup>2</sup>/bucket, 18 L: 12 - 18 m<sup>2</sup>/bucket

· Paintable (Coverage) Area

PACKAGING & STORAGE

: 5 L, 10 L ve 18 L PP buckets · Packaging Storage temperature (°C) : 5 - 35 °C

: 24 months from date of production if stored in original, unopened, undamaged packages.

: Store tightly closed in a dry and cool place. Storage condition

**IMPORTANT** 

Consuming more or less can lead to efficiency 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

A and RISKS

The application surface must be clean and free from all impurities like dirt, oil, and mud. The surface to be applied with Thermal Paint must be breathable, if it is to be applied to the painted surface, your existing paint must have this feature. Thinas to consider during and after the application

In primer application, ISONEM UNIVERSAL PRIMER or ISONEM ANTI RUST PRIMER specified in the table below should be used depending on the application surface. Other ISONEM nrnducts

Application It should be applied between 5 - 35°C. emperature



Hygienic

any harmful substances

Sound Insulation Thermal

Provides %100

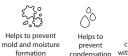
Waterproofing

B S1 d0

 $(\nwarrow)$ 







condensation

Can be customized with color chart

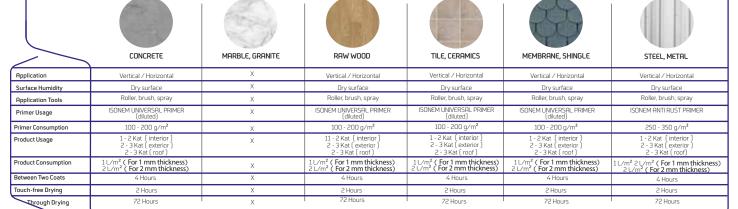




not required, CLASS C₀







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











