

TECHNICAL DATA SHEET

1. DESCRIPTION

ZENOVA IR is an ecologic thermal insulating plaster. It is a mono component product based on ceramic microspheres which, after application, present outstanding properties of:

- thermal insulation internally and externally;
- thermal reflection of sunrays and infrared radiation;
- anti-condensation characteristics by eliminating the conditions which lead to the presence of water drops and mold, at the same time preventing their formation;
- internal heat conservation by an increased reduction of heat transfer via its excellent thermal insulating characteristics; interior temperature conservation thus leads to decreased energy costs.

ZENOVA IR is a homogeneous and water-dilutable product with paste consistency.

ZENOVA IR is used in new thermal insulations and for the rehabilitation and maintenance of old thermal insulations. Suitable internally and externally for walls, (timber, concrete, brick, plasterboard, etc.)

Offers protection against humidity, very high and very low temperatures. Eliminates thermal bridging and water capillarity.

2. TECHNICAL DATA

PRODUCT BEFORE APPLICATION	
Appearance	Homogeneous, paste-like consistency
Color	White (recommended), grey, pastel colors (upon request)
Thermal Conductivity	0.069 W/mK (ASTM C518-17)
Thermal Emittance	0.743 (ASTM C1371)
Solar Reflectance	0.871 (ASTM C1549)
Solar Reflectance Index	108
Density (g/cm ³) SR EN ISO 2811/1:2003 + AC/2006	0,75 ± 0,05
Brookfield Viscosity (cP) SR EN ISO 2555:2003	min. 10.000
Dry substance content (%) SR EN ISO 3251:2003	60 ± 5

APPLIED PRODUCT (MEMBRANE)	
Membrane appearance	Uniform, continuous, elastic
Drying time (hours) SR EN ISO 3678:1999	Max. 24 hours

3. APPLICATION TECHNOLOGY

Installation of ZENOVA IR shall be performed by trained applicators for such work, with respect to the specific technical regulations.

Application of the render shall be done only in favorable atmospheric conditions: ambient temperature min. 10°C, acceptable aeration, relative humidity of max. 80%.

Surface preparation

The surfaces on which ZENOVA IR will be applied must be clean, dry and dust-free.

Priming the surface

Zenova Primer can be applied on the prepared surface by using a brush, roller brush, or by airless spray gun. The primer layer dries in approximately 1 hour, depending on the ambient temperature and humidity.

Product consumption for primer: 50 - 100 g/m².

Application of ZENOVA IR is carried out after the primer has completely dried. Before application, the product must be homogenized well by medium stirring (300-400 rpm). Application of the product shall be done by trowel or by plaster spraying machine. Minimum application temperature: 10°C. Multiple layers shall be applied only after the previous layer has dried.

Also, you can apply the ZENOVA IR render by adding 1 kilo of PORTLAND cement at 20 liters of ZENOVA IR under a moderate stirring of 400 rpm for about 5 minutes until a homogeneous plaster-like consistency is achieved, integrating the cement particles into the ZENOVA IR paste. After mixing, the mixture can be applied by a trowel. A single trowel crossing equals 1 coating layer.

Recommended total thickness (with or without cement) = 5 mm. May be applied as thin as 1mm at a consumption rate of 1L/m². Thermal performance and actual product consumption may vary depending on the substrate, equipment used, application method, and building type. Let each layer dry before applying the next layer.

Theoretical product consumption is 5L/m².

Clean tools with water before the mixture dries.

4. PACKAGE. STORING. TRANSPORT

ZENOVA IR is packed in PE recipients of different sizes. Store in non-humid places, at temperatures between 5-35°C. Keep away from freezing and direct sunlight.

5. SHELF-LIFE

The product has a shelf life of 36 months from the date of production if stored in proper conditions.

6. ENVIROMENTAL, HEALTH & SAFETY INFORMATION

The product is waterborne and it doesn't need special measures of usage and protection. Keep out of reach of children. Avoid contact with skin and eyes. In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water.

Don't dispose in sewage. Dispose of the product and its packaging appropriately based on local bylaws.

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