

## ISOLION CPK-50

### GLASS SPHERE INTERIOR AND EXTERIOR WALL INSULATION PLASTER

**Product Definition** › Glass sphere based, polymer reinforced, special interior and exterior wall insulation plaster. It is a mixture which is applied by mixing with water and 99% for the purpose of achieving heat, sound, water and fire insulation in your buildings. 99% of the product consists of natural raw materials.

**Areas of Use** › Concrete, reinforced concrete, brick, pumice, gas concrete, old plaster, plaster boards, precast concrete panels  
› Steel structures,  
› Glass and marble surfaces,  
› Insulation of interior and exterior walls.

**Features and Advantages** › The product provides 40-50% heat saving when applied on the interior and exterior walls of the buildings.  
› The product protects buildings against factors such as rain, snow, sun.  
› It allows the buildings to breathe.  
› Provides sound insulation.  
› It's A1 class fireproof material.  
› The product prevents formation of humidity, mold, fungus etc. and provides a healthy environment since it is a permeable material.  
› It is an eco-friendly product. It does not include carcinogen.  
› The product does not impose burden on the structures due to its low density.  
› It is resistant to acid rains. The product is resistant to chemical degradation. Use life of the product is equal to the design life of your building.

#### Application Details

**Surface Preparation** › Surfaces must be clean, smooth, robust and free of anti-stick substances and residuals such as dust, oil, dirt, corrosion, molding oil, detergent. Weak parts on the surface must be removed. If application surface is not smooth, unevenness of the surface must be corrected before plastering.

#### Application

› 20 kg ISOLION CKP-50 is added to 14.5-15.5 clean water in a clean container, and mixed by means of a low speed mixer or driller for 5-6 minutes in order to achieve homogeneity and prevent agglomeration. All water is not added at once but in a gradual manner. This mixture is stilled for mellowing for a period of 10 minutes. It is recommended to mix and use the whole package at once. It is recommended that the mixture in the container is consumed within 2 minutes maximum. ISOLION CKP-50, which is made ready for use, must be applied on the whole surface by means of a steel trowel or machine uniformly and in equal thickness. Before this application, anos are piled on the surface at regular intervals. Application must be made between these anos. Afterwards, surplus plaster between anos are corrected with gauge. A Decorative or even appearance is provided by means of steel trowel. If more than one coat will be applied, make sure that 3 hours pass between each coating application. The surface must be moisturized before starting to the next coating application. The mixture must be mixed at certain intervals to prevent agglomeration.  
› During application, ambient temperature must be over +5 C°  
› Paint works can be performed approximately 48 hours after the application.

**Warnings  
and  
Suggestions**

- › The product is preserved in a dry, cool, contact-free environment and minimum +5 C° ambient temperature.
- › The product is not applied directly on calcareous, plaster base, silicon acrylic surfaces.
- › Lining is performed by scraping acrylic and silicon surfaces.

**Technical  
Specifications**

Colour	White
Dry Density	500±50 kg/m <sup>3</sup>
Heat Conductivity	T1 < 0,1 W/mK (0,065)
Compressive Strength	CSII ≥ 1,50 N/mm <sup>2</sup> (2,70)
Bond Strength	> >0.23 N/mm <sup>2</sup>
Water Absorption	>W1 ≤ 0,40 kg/m <sup>2</sup> min <sup>0,5</sup> (0,10)
Vapour Diffusion	< 15 μ (5-6)
Fire Resistance	A1
Atmospheric Environment Strength	Durable
Paint Preparation time	>48 hours in suitable environment
Preservation Period	12 months (in suitable environment)
Application Method	Manually and by means of a machine
Application Ambient Temperature	> +5 C°

\*\*\* Tests were conducted in laboratory environment, under 23 oC and 50% relative humidity.

**Consumption**

- › For 1cm thickness, 4,0 - 4,5 on 1 m<sup>2</sup> surface. (2,00 – 2,35 m<sup>2</sup> for 1 bag (20 kg), 2 cm thickness)

**Packaging**

- › 20 kg kraft bags.

**Shelf Life**

- › Shelf life of the product is 12 years under suitable storage conditions.

**Standard**

- › The product complies with TS EN 998-1 Standard.

