

ISONEM LIQUID GLASS TECHNICAL DATA SHEET

Product Name	: ISONEM Liquid Glass
Type	: Two component, solvent based liquid glass. It can be used for waterproofing, decoration.
Density (25°C, g/mL)	: 0.90 ± 0.10
Viscosity (25°C, mPa.s)	: 0 - 100
Solid Content (% Weight)	: 28 ± 2
Water Transmission Rate (kg/ m². h^{0,5})	: ≤ 0.1, CLASS W ₃
Adhesion strength by pull-off test (N/mm²)	: Crack-bridging system trafficking ≥ 1,0 With trafficking ≥ 2,0
Permeability to water vapour (m)	: sD > 50, CLASS III
Brightness (60° angle)	: > 60, SINIF G ₁
UV-stability	: Resistant
Solvent	: Organic solvent
Flash Point (°C)	: > 21
Class of Fire Reaction	: Bfl S1
Consumption	: 0.15 - 0.20 kg/m ² (one layer)
Drying Time (hours, 20°C)	: 4 – 8 (It may vary depending on the application fullness and moisture)
Curing Time (hours, 20°C)	: 18 - 24 (relative humidity of the air must be less than 80%)
Pot Life (hours, 20°C)	: 1 (it may vary depending on the ambient temperature)
Mixing Ratio (by weight)	: 7 portions of Liquid Glass A Component / 1 portion of Liquid Glass B Component
Color	: Transparent
Packaging	: In a set of 4 kg as A Component: 3,5 kg, B Component: 0,5 kg
Application Temperature (°C)	: 15 – 35
Storage Temperature (°C)	: 15 – 35
Storage Condition/Shelf life	: 24 months from the date of production, if it is kept in dry and cool places away from heat and fire and the container caps are tightly closed.
Application Tools	: Brush, roller, suitable sprayer

USAGE AREA

- Glass, glass brick, mosaic, terrazzo tiles,
- Tiles, ceramic, marble, granite, natural stone, porcelain surfaces,
- Travertine, pressed bricks,
- Aluminum, galvanized steel, wood,
- Balcony, terrace, bathroom, kitchen, stone covered exteriors,
- Ceramic, glass mosaic coated pools.

SURFACE PREPARATION

On the surfaces to be applied, any oil, dust, dirt, rust and similar materials that may prevent adhesion of the liquid to the surface between the floor and liquid glass should be completely removed. For a good adhesion, the surface must be cleaned very well.

If the paint is bad or blistered on the old painted surfaces that the liquid glass will be applied, it should be scraped completely. A sanded surface provides better mechanical features for the liquid glass application and helps better adhesion of the liquid glass to the surface.

APPLICATION METHOD

Before application, the two components must be mixed thoroughly in the given ratios and weights. Only when the two components become a uniform and full mixture, they can enter in the desired reaction. One layer will be enough for the non-absorbent surface. For the absorber surface, it should be applied as 2 or 3 layers. The waiting period between the layers must be 24 - 48 hours / 20°C.

FEATURES AND BENEFITS

ISONEM LIQUID GLASS is a product that perfectly adheres to glass, mosaic, tile, porcelain, ceramic, marble, granite, natural stone, wooden, concrete, screed, galvanized steel, aluminum, etc. surfaces. It is highly resistant to the atmospheric conditions and can be produced as transparent or colored. It has excellent water resistance as well as high chemical and physical resistance. It is a two-component product that can be used for waterproofing as well as decoration.

It is not affected by UV and weather conditions. Yellowing, fading or lifting off over time does not occur. Especially in solving insulation problems arising on the floors such as balconies, terraces, bathrooms, pools, etc., it is easily applied without defecting and damaging the existing coating.