ISONEM LIQUID GLASS
(Liquid Glass - Transparent and Bright Waterproofing)

Product Description

ISONEM LIQUID GLASS is a two-component product which excellent adheres to surface like glass, mosaic, tile, porcelain, ceramic, marble, granite, natural stone, wood, concrete, screed, galvanized sheet, aluminum etc.. The product which has a high resistance to atmospheric conditions can be used for waterproofing and decorative purposes. Produced in transparent the product has high chemical and physical besides excellent water resistance. It is not affected by U.V and outdoor weather conditions. It does not make yellowing, fading or peeling off in time. It is especially applied as a solution to insulation problems arising on the floors such as balconies, terraces, bathrooms easily and without damaging the existing coating.

Usage Areas

- Glass, glass brick, mosaic, mosaic tile,
- Tiles, ceramics, marble, granite, natural stone, porcelain surfaces
- In press bricks,
- On wooden surfaces,
- Balcony, terrace, bathroom, kitchen, stone-covered exterior.
- Ceramic, glass mosaic covered ornamental pools.
- It helps to prevent dusting on absorbent surfaces.

Technical Specifications

Density A comp. (25°C, g/mL)	:	$0,90 \pm 0,10$
Density B comp. (25°C, g/mL)	:	$0,95 \pm 0,10$
pH (25°C)	:	Not applicable (N/A)
Viscosity B comp. (25°C, mPa.s)	:	0 - 500
Solid content B comp. (% Weight)	:	Not applicable (N/A)
Water transmission rate (kg/ m^2. $h^{0,5}$)	:	< 0,1 CLASS W_3
Adhesion strength by pull-off test (N/mm²)	:	Rigid system without trafficking ≥ 1.0 N/mm²
Permeability to water vapour (m)	:	$5 \leq S_D \leq 50$ CLASS II
Touch-free Drying	:	1 - 2 hours
Through-dry time	:	7 days
Pot life (23°C)	:	50 – 60 minutes
Solvent	:	Organic solvent
Class of fire reaction	:	Bfl S1
Color	:	Transparent

Application Procedure

Surface preparation: The relative humidity of the air should be maximum 80%, the ambient temperature should be 15 - 35 ° C and the surface temperature to be applied should be at least 5 ° C. It should not be applied in rainy weather. For good adhesion, surface cleaning should be done very well. Any kind of oil, dust, dirt, rust and similar substances on the surfaces to be applied between the liquid glass and the floor which may prevent the liquid glass from sticking to the surface should be completely cleaned. In tile, ceramic applications, if existing joint fillings were worn away, they should be renewed. The sanded surface provides better mechanical properties for liquid glass application and helps to better adhesion of the liquid glass to the surface.

Application method: Before application, the two components must be mixed thoroughly and at the given ratios. The two components can react only when the mixture is uniform and complete. The number of floors to be applied for the best performance is indicated in the table below.

Application Conditions / Limitations

Application	:	In the same direction as the first layer
Surface humidity	:	Dry surface
Primer usage	:	X
Primer consumption	:	X
Product usage	:	**For concrete, raw wood, etc. surfaces:** 2 layers
		For marble, granite, tile, ceramic, metal/steel surface; 1 layer
Product consumption	:	150 - 200 g/m² (two layers), 75 - 100 g/m² (one layer)
Paintable (Coverage) Area	:	20 - 26 m²/4 kg set, 10 - 13 m²/2 kg set
Between two coats	:	4 - 24 hours
Recommended application tools	:	Roller (synthetic epoxy), brush, suitable spray
Application temperature (°C)	:	5 - 35 °C

Things to consider during and after the application: The application surface must be clean and free from all impurities like dirt, oil, and mud. The joint fillings should be renewed if current ones abraded in ceramic, tiles applications.

Other ISONEM products recommended: -

IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. B component should be used immediately after opening. It is not appropriate to re-use an opened packaging that took ar.

Packaging & Storage

Packaging	:	4 kg set (Component A: 3,5 kg, Component B: 0,5 kg)
		2 kg set (Component A: 1,75 kg + Component B: 0,25 kg)
Storage temperature (°C)	:	5 - 35 °C
Shelf life	:	24 months from date of production if stored in original, unopened, undamaged packages.
Storage condition	:	Store tightly closed in a dry and cool place away from heat and fire.

Cleaning of Tools

Clean all tools and application equipment with cellulosic thinner immediately after use.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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TS EN 1504-2: Surface protection systems for concrete - Coating (LIQUID GLASS)
DoP No: 17

	STANDARD VALUE	CONTROL VALUE
Permeability to water vapour	Class I S_D<5 m *(permeable to water vapour)* Class II 5 m≤S_D≤ 50 m Class III S_D>50 m *(not permeable to water*	Class II - 40 m
Capillary absorption and permeability to water	w < 0,1 kg/m^2.h^{0,5}	0,05 kg/m^2.h^{0,5}
Adhesion strength by pull-off test	Without trafficking ≥ 1,0 N/mm^2 With trafficking ≥ 2,0 N/mm^2	Rigid system without trafficking 1,0 N/mm²
Dangerous substances comply with 5.4		
Class of fire reaction: Bfl S1		