

TECHNICAL DATA SHEET

ISONEM L

(Transparent Power)

Product Description

ISONEM L is a next-generation transparent water insulation product with excellent adhesion to all surfaces, based on water-based pure acrylic. It is ready to use, UV resistant, glossy, and has an elastic structure. It is used as a waterproofing material on all types of surfaces such as concrete, ceramic, plaster, painted/unpainted surfaces, marble, glass, plastic, metal, tile walls, wood, etc. It is easy to work with and economical.

Usage Areas

Suitable for use on any surface where transparent waterproofing is desired, including bathroom floors, joints, cracks, window edges, glass, painted walls, plaster, stone walls, wood, shingle, and tile roofs.

Technical Specifications

Density (25°C, g/mL)	: 1,00 ± 0,10
pH (25°C)	: 7.0 – 9.0
Viscosity (25°C, mPa.s)	: 5000 – 10000
Solid Content Ratio (Weight %)	: 49 ± 2
Water transmission rate (kg/ m ² . h ^{0.5})	: < 0,1 CLASS W ₃
Adhesion strength through tensile testing (N/mm ²)	: Crack sealing or flexible systems Without traffic load ≥ 0,8
Water vapor permeability (m)	: 5 ≤ S _D ≤ 50 CLASS II
Touch dry	: 3 hours
Full drying	: 72 hours
Mixture life (23°C)	: X
Solvent	: Water
Fire class	: D-s2 d0
Color	: Transparent

Application Procedure

The surface should be solid, and all surfaces should be cleaned of oil, dirt, and any other residues before application. After opening the packaging, it should be thoroughly mixed, and then applied directly in 2 coats with a brush, roller, or spraying gun without thinning. For surfaces such as sheet/metal, the surfaces should be primed with ISONEM Anti Rust Primer (Anti-corrosive Primer) with a consumption of 0.250-0.350 kg/m² before application.

Application method: ISONEM L is ready to use and should be thoroughly mixed in a homogeneous manner after opening the lid and before application. It is applied in 2 coats with a roller for glossy surfaces and with a brush and suitable sprayer for other surfaces. A waiting period of 4 hours is required between coats. The product is suitable for application between +5°C and +35°C temperatures.

Application Conditions / Limitations

<u>Application</u>	: In perpendicular coats
<u>Surface humidity</u>	: Dry surface
<u>Primer usage</u>	: For surfaces such as sheet/metal: ISONEM ANTI RUST PRİMER (Consumption: 250 - 350 g/m ²)
<u>Primer consumption</u>	: X
<u>Product usage</u>	: 2 coats
<u>Product consumption</u>	: 0,2 kg/m ² (for two coats application) The given consumption values are approximate and may vary depending on the surface area and application thickness.
<u>Paintable (Coverable) Area</u>	: 1 L: 5 m ² (two coats application)
<u>Waiting time between coats</u>	: 4 hours
<u>Recommended application tools</u>	: Roller (synthetic epoxy), brush, suitable spray
<u>Application temperature</u>	: 5°C - 35°C

Points to Note During Application: The surface to be applied must be clean, free from substances such as dirt, oil, and mud. The color of the product is milky white when applied, but it turns transparent after the drying process. White color on the surface in thick applications is normal. Therefore, it should be applied by thoroughly blending into the surface without thick application.

IMPORTANT

The surface where the application is made must be protected from rain, water, mechanical impacts, etc., for 24 hours during and after the application.

Packaging & Storage

<u>Packaging</u>	: 1 L PP bucket
<u>Storage temperature(°C)</u>	: 5 °C - 35 °C
<u>Shelf life</u>	: If stored in original, unopened, and undamaged packaging, it is suitable for use for 24 months from the date of production.


Storage conditions : Store in a dry and cool environment with the packaging lids tightly closed.

Equipment Cleaning

Clean all tools and application equipment immediately after use with clean water.

Health and Safety Information

For information and advice on the safe use, storage, and disposal of chemical products, users should refer to the latest Safety Data Sheet containing physical, ecological, toxicological, and safety-related data.

		
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Isonem Paint and Insulation Technologies Construction Industry Trade Inc. - 35470/İZMİR İTOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19		
2765-CPR-0136 TS EN 1504-2: Surface protection systems for concrete - Coating (ISONEM L) DoP No: 53		
	STANDARD VALUE	CONTROL VALUE
Permeability to water vapour	Class I $S_o < 5$ m (permeable to water vapour) Class II $5 \text{ m} \leq S_o \leq 50$ m Class III $S_o > 50$ m (not permeable to water)	Class II - 40 m
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,05 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Adhesion strength by pull-off test	Without trafficking $\geq 0,8 \text{ N/mm}^2$ With trafficking $\geq 1,5 \text{ N/mm}^2$	Crack bridging flexible systems without trafficking $0,8 \text{ N/mm}^2$ with trafficking $1,5 \text{ N/mm}^2$
Dangerous substances comply with 5.4		
Class of fire reaction: D-s2 d0		

Statement of Responsibility

The technical information and application advice given in this ISONEM Paint & Insulation Technologies publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

