

TECHNICAL DATA SHEET

ISONEM BD

(Transparent Floor Waterproofing That Does Not Disturb the Natural Image)

Product Description

It penetrates the floor or joints without forming a film on the surface it is applied on and insulates by providing full protection. It is transparent and not damage to the image of the surface. It breathings, non-flammable and not affected by UV, sunlight. It is applied in indoor and outdoor areas in a short time. The workmanship is easy, economical and long-lasting. It can be applied to all kinds of coated, absorbent and waterproofing problem surfaces.

Usage Areas

It is applied to all kinds of absorbent surfaces such as plaster, concrete, gas concrete, screed. When used in areas with low surface absorbency, the remaining material residue on the surface should be cleaned in order to avoid any stains on the surface.

Technical Specifications

Density (25°C, g/mL)	: 1,00 ± 0,10
pH (25°C)	: 7.0 – 9.0
Viscosity (25°C, mPa.s)	: 0 - 500
Water transmission rate (kg/ m ² . h ^{0.5})	: < 10 mm, CLASS I
Adhesion strength by pull-off test (N/mm ²)	: Absorption ratio <7,5 compared with the untreated specimen, absorption ratio (after immersion in alkali solution) <10%
Permeability to water vapour (m)	: > 10, CLASS II
Touch-free Drying	: 3 hours
Through-dry time	: 24 hours
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: B S1 d0
Color	: Transparent

Application Procedure

Surface preparation: Firstly, if there are cracks and swollen parts on the surface, they must be repaired and the surface must be cleaned from impurities like dirt, oil, rust. If the joint fillings abraded, they are renewed, the coatings that have bulged or displaced are repaired. If the mastic and silicon applications were peeled off or removed, they must be repaired, and the surface is become fully prepared for the insulating application. If the floor has been washed, it must be let to dry thoroughly and the application should be made after the floor is completely dried.

Application method: The plastic can of ISONEM BD is shaken thoroughly before usage. Then, the product is poured into a plastic bucket and is thoroughly applied on the surface via a brush. ISONEM BD leaves stains glazed surfaces like ceramic, marble when it dries, because of not absorbed. So it is not suggested on these surfaces and especially it should be applied to joints carefully. The surface where the product has been applied is to let dry for 1 hour. After waiting for one hour, the remains of the product that have not been absorbed are wiped out with a wet piece of cloth. The cleansing operation must be done with a wet piece of cloth and it must be avoided the use of materials such as detergents. The second layer application is done in a maximum of 1 hour before the first layer dry, "wet on wet", repeating the same processes. After an hour, surfaces of ceramics and marbles are wiped with a wet piece of cloth and the second/last layer application is finished.

Application Conditions / Limitations

<u>Application</u>	: Horizontal
<u>Surface humidity</u>	: Dry surface
<u>Primer usage</u>	: X
<u>Primer consumption</u>	: X
<u>Product usage</u>	: 2 layers
<u>Consumption</u>	: 200 mL / m ²
<u>Paintable (Coverage) Area</u>	: min. 25 m ² /plastic can
<u>Between two coats</u>	: max. 1 hour
<u>Recommended application tools</u>	: Roller, brush, suitable spray
<u>Application temperature (°C)</u>	: 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. Swelling parts should be scraped thoroughly and the surface should be dry.

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.

Packaging & Storage


<u>Packaging</u>	: 5 L in PE can
<u>Storage temperature (°C)</u>	: 5 - 35 °C
<u>Shelf life</u>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<u>Storage condition</u>	: 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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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 - Hydrophobic impregnant (BD) DoP No: 07		
	STANDARD VALUE	CONTROL VALUE
Depth of penetration (H)	Class I: < 10 mm Class II: ≥ 10 mm	Class I - 8 mm
Water absorption and resistance to alkali test for hydrophobic impregnation (H)	Absorption ratio < 7,5 % ,compared with the untreated specimen Absorption ratio (after immersion in alkali solution) < 10%	Absorption ratio 5% compared with the untreated specimen Absorption ratio (after immersion in alkali solution) 8%
Drying rate for hydrophobic impregnation (H)	Class I: >30 % Class II: >10 %	Class II - %20
Dangerous substances comply with 5.4		
Class of fire reaction: B S1 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.

