

## TECHNICAL DATA SHEET

# ISONEM BE 99

(300 % Elastic Waterproof Exterior Wall Paint)

### Product Description

ELASTIC, WATERPROOF EXTERIOR WALL PAINT, It is a paint that forms a seamless, elastic and waterproof layer by drying on the surface on which it is applied. It creates a decorative coating. It is water-based polymer-based, solvent-free and has 300% elasticity. It can be applied on dry or slightly moist surfaces. It is resistant to UV and outdoor weather conditions. It is water-impermeable but has a water vapor permeable structure. It provides the buildings to breathe and prevents moisture, damp with this feature. Thanks to its special formula, it does not keep dirt and preserves its first-day feature for many years. It prevents the carbon dioxide gas formed in the structure and thus protects the equipment in the concrete by reducing the formation of carbonization. It protects the buildings against the effects of rain, dirt, traffic etc. from the external environment. Since it has high elasticity, it is not affected by cracks that may occur on the building surface.

### Usage Areas

- All kinds of plaster and painted exterior surfaces,
- Mineral render etc. on old coatings,
- Exterior surfaces, wood, etc.
- In buildings covered with thermal insulation systems,
- For the painting of concrete or prefabricated structures,
- All kinds of plaster and painted exterior surfaces,
- On old coatings like mineral plaster, mill-mixed plaster,
- Exterior surfaces, wood and like surfaces
- In buildings with sheathing,
- For the painting of exposed concrete or prefabricated structures,

### Technical Specifications

Density (25°C, g/mL)	: 1,40 ± 0,10
pH (25°C)	: 7.0 – 9.0
Viscosity (25°C, mPa.s)	: 28000 – 32000
Solid content (% Weight)	: 79 ± 2
Water transmission rate (kg/ m <sup>2</sup> . h <sup>0.5</sup> )	: < 0,1 CLASS W <sub>3</sub>
Adhesion strength by pull-off test (N/mm <sup>2</sup> )	: Crack bridging flexible systems without trafficking ≥ 0.8, with trafficking 1,5 N/mm <sup>2</sup>
Permeability to water vapour (m)	: 5 ≤ S <sub>D</sub> ≤ 50 CLASS II
Touch-free Drying	: 1 hour
Through-dry time	: 72 hours
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: B S1 d0
Color	: All requested can be produced in colors

## Application Procedure

**Surface preparation:** Before application, the surfaces must be clean, free of oil, dirt, mud and loose parts should be cleaned. The surface may be dry or slightly humid. It should not be applied on surfaces with salt efflorescence from the negative side. If the application surface has cracks, holes, etc., these should be repaired with ISONEM M 03 elastic mortar. If dilatation is present on the surface, it should be filled with ISONEM A4 elastic filler in advance. The appropriate primer selection depending on the surface is made according to the following table. ISONEM UNIVERSAL PRIMER (1: 7 diluted with water - 1 part primer, 7 part water) insulation and paint primer should be applied one layer with 100 - 200 g/m<sup>2</sup> consumption. The primer is then allowed to dry for 4 hours.

**Application method:** ISONEM BE 99 is ready to use. We recommend that the product is mixed homogeneously before using it. The application can be made with a brush, roller or a suitable sprayer. After the primer application, ISONEM BE 99 is applied to the surface by two coats, waiting between the coats at least 4 hours and the painting process is finished.

## Application Conditions / Limitations

<b><u>Application</u></b>	: In perpendicular to each layers
<b><u>Surface humidity</u></b>	: Dry surface
<b><u>Primer usage</u></b>	: <b>For concrete, raw wood, etc. surfaces:</b> ISONEM UNIVERSAL PRIMER (diluted). <b>For metal/steel surface;</b> ISONEM ANTI RUST PRIMER (Consumption: 250 - 350 g/m <sup>2</sup> )
<b><u>Primer consumption</u></b>	: 100 - 200 g/m <sup>2</sup>
<b><u>Product usage</u></b>	: 2 layers
<b><u>Product consumption</u></b>	: 0,8 - 1 kg/m <sup>2</sup>
<b><u>Paintable (Coverage) Area</u></b>	: <b>5 kg:</b> 5 - 6 m <sup>2</sup> /bucket <b>10 kg:</b> 10 - 12 m <sup>2</sup> / bucket <b>18 kg:</b> 18 - 22 m <sup>2</sup> / bucket
<b><u>Between two coats</u></b>	: 4 hours
<b><u>Recommended application tools</u></b>	: Roller (synthetic epoxy), brush, spray
<b><u>Application temperature (°C)</u></b>	: 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.

**Other ISONEM products recommended:** In primer application, ISONEM UNIVERSAL PRIMER or ISONEM ANTI RUST PRIMER should be used depending on the application surface.

## IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application.

## Packaging & Storage


<b>Packaging</b>	: 5 kg, 10 kg and 18 kg PP in buckets
<b>Storage temperature (°C)</b>	: 5 - 35 °C
<b>Shelf life</b>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<b>Storage condition</b>	: Store tightly closed in a dry and cool place.

## Cleaning of Tools

Clean all tools and application equipment with clean water 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/IZMIR ITOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19		
2765-CPR-0135 TS EN 1504-2: Surface protection systems for concrete - Coating (BE99) DoP No: 10		
	STANDARD VALUE	CONTROL VALUE
Permeability to water vapour	Class I $S_D < 5$ m (permeable to water vapour) Class II $5 \text{ m} \leq S_D \leq 50$ m Class III $S_D > 50$ m (not permeable to water)	Class II - 40 m
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,05 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
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: 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.

