

## TECHNICAL DATA SHEET

# ISONEM MS RUBBER

(Liquid Bitumen Rubber)

### Product Description

It is an elastic, modified bitumen additive, single component waterproofing material based on bitumen modified pure polymer, produced with the latest technology, with excellent properties. It forms a seamless and waterproof coating after drying on the applied surfaces. Thanks to its structure, it has elastic and crack closure feature. It is suitable for use in the insulation of old or new roofs by covering and underground. It is not affected by groundwater. It adheres strongly to many dry or slightly damp surfaces, does not swell or separate over time. It is resistant to plant roots. It is suitable for use in gardens and terraces.

### Usage Areas

- On foundation, shear wall, external walls of the basement,
- Covering on old or new terraces or roofs,
- In the re-insulation of old bitumen or bitumen surfaces,
- On membranes or repairs,
- In roof gutters,
- In the insulation of concrete pipe, brick, wood, zinc, aerated concrete etc. surfaces,
- Protection of all concrete surfaces under the ground against corrosion.

### Technical Specifications

Density (25°C, g/mL)	: 1,45 ± 0,10
pH (25°C)	: 7,0 – 9,0
Viscosity (25°C, mPa.s)	: 8000 - 10000
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
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	: Black

### Application Procedure

**Surface preparation:** Application surfaces should be dry or slightly damp. It should not be used in insulations which is from the negative side and on the basement wall where is appeared salt efflorescence. Application surfaces should be cleaned from all kinds of particles, dirt, a bonding agent, dust, mud. Firstly, gap, hole, crack and segregation on the surfaces should be repaired with ISONEM M03 elastic mortar by using ISONEM D10 Latex as bonding agent. If there is dilatation, it should be

filled with ISONEM A4 Elastic Filler. For applications on terraces and roofs, R-3 cm chamfer should be applied to the walls and parapet bottom before this process. In terrace and roof applications, it is recommended to lay an insulating mesh of 45 gr/m<sup>2</sup> and the application should be done with it. There is no need for mesh in the basement.

**Application method:** ISONEM MS RUBBER is ready to use. However, it should be mixed homogeneously before application. ISONEM MS RUBBER can be applied to the surface without diluting it with a brush, roller or a suitable sprayer and waiting to dry between the layers. The application should be made in perpendicular layers each time. It is recommended to use the 45 g / m<sup>2</sup> insulation mesh between the floors in terraces and roofs or on floors with high risk of cracking. Application should not be made in high temperatures or frost. In summer, we recommend that the application be done in the morning or evening. It should be ensured that the roofs on which the application will be made are given the correct and sufficient slope for suitable water drainage. Suitable water drainage. In order to avoid ponding on the roof. It is recommended to use with grout detail in chamfer applications.

## Application Conditions / Limitations

<b>Application</b>	: In perpendicular to each layers
<b>Surface humidity</b>	: Dry / slightly humid surface
<b>Primer usage</b>	: -
<b>Primer consumption</b>	: -
<b>Product usage</b>	: 2 layers
<b>Product consumption</b>	: 1 – 1,5 kg/m <sup>2</sup> (two layers application)
<b>Paintable (Coverage) Area</b>	: 12 - 18 m <sup>2</sup> / bucket
<b>Between two coats</b>	: 4 hours
<b>Recommended application tools</b>	: Roller, brush, suitable spray
<b>Application temperature (°C)</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:** ISONEM M 03 for segregation and concrete defects and rod holes, ISONEM A4 for dilatations.

## 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>	: 18 kg in PP 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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<b>Isonem Paint and Insulation Technologies Construction Industry Trade Inc. - 35470/IZMIR ITOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19</b>		
<b>2765-CPR-0136 TS EN 1504-2: Surface protection systems for concrete - Coating (MS RUBBER) DoP No: 56</b>		
	<b>STANDARD VALUE</b>	<b>CONTROL VALUE</b>
<b>Permeability to water vapour</b>	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
<b>Capillary absorption and permeability to water</b>	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,02 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
<b>Adhesion strength by pull-off test</b>	Without trafficking $\geq 0,8 \text{ N/mm}^2$ With trafficking $\geq 1,5 \text{ N/mm}^2$	Crack bridging flexible systems without trafficking $0,8 \text{ N/mm}^2$
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.

