

## TECHNICAL DATA SHEET

# ISONEM MS FLOOR

(Polymer Based Asphalt and Concrete Flooring)

### Product Description

ISONEM MS FLOOR is an extremely durable floor coating with strong adherence and UV resistance. ISONEM MS FLOOR, which is water-based and one-component, can be produced in any color, and it is extremely easy to work with its fast drying feature and application that does not require a primer. With its strong structure that is not affected by human and vehicle traffic, it is extremely suitable for use on walkways, floors that will be exposed to vehicle traffic, and asphalt pavements. It is used to obtain a dust-free, decorative surface on asphalt, concrete and cement surfaces indoors and outdoors.

### Usage Areas

- Garages and light traffic exposed to parking areas
- Walking paths, garden floors,
- On concrete or asphalt roads, parking areas,
- Game and entertainment areas

### Technical Specifications

Density (25°C, g/mL)	: 1,65 ± 0,10
pH (25°C)	: 7.0 – 9.0
Viscosity (25°C, mPa.s)	: 7000 ± 2000
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> )	: Rigid system without traffic load ≥ 1.0 N/mm <sup>2</sup> , with traffic load 2.0 N/mm <sup>2</sup>
Permeability to water vapour (m)	: 5 ≤ S <sub>D</sub> ≤ 50 CLASS II
Touch-free Drying	: 30 minutes
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:** The surfaces to be applied should be free from all kinds of oil, dirt, dust and surface wastes and should be completely dry and clean. In order to clean the application surfaces, they should be washed with water and waited for drying. The areas to be repaired, if any, on the surface should be repaired with ISONEM MS MORTAR at a maximum thickness of 5 mm at once. It does not require the use of primer.

**Application method:** ISONEM MS FLOOR is ready to use. It is mixed homogeneously in the bucket for 5 minutes with the help of a mixer, and then it can be applied in two layers with a brush, roller or a suitable sprayer, waiting for 1 hour between layers. In the application with a sprayer, homogeneous distribution and penetration of the application on the surface is provided with the help of a brush or roller immediately after the application.

## Application Conditions / Limitations

<b><u>Application</u></b>	: In perpendicular to each layers
<b><u>Surface humidity</u></b>	: Dry surface
<b><u>Primer consumption</u></b>	: -
<b><u>Primer consumption</u></b>	: -
<b><u>Product usage</u></b>	: 2 - 3 layers
<b><u>Product consumption</u></b>	: 1 kg/m <sup>2</sup> (two/three layers application)
<b><u>Paintable (Coverage) Area</u></b>	: min. 18 m <sup>2</sup> /bucket (two/three layers application)
<b><u>Between two coats</u></b>	: 1 hours
<b><u>Recommended application tools</u></b>	: Roller (synthetic epoxy), brush, spray
<b><u>Application temperature (°C)</u></b>	: 15 - 45 °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 MS MORTAR repair mortar should be used for surface repair.

## IMPORTANT

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

## Packaging & Storage

<b><u>Packaging</u></b>	: 18 kg PP in buckets
<b><u>Storage temperature (°C)</u></b>	: 5 - 35 °C
<b><u>Shelf life</u></b>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<b><u>Storage condition</u></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>2765-CPR-0136 TS EN 1504-2: Surface protection systems for concrete - Coating (MS FLOOR) DoP No: 57</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>	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,05 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
<b>Adhesion strength by pull-off test</b>	Without trafficking $\geq 1,0 \text{ N/mm}^2$ With trafficking $\geq 2,0 \text{ N/mm}^2$	Rigid system without trafficking $\geq 1,0 \text{ N/mm}^2$ , with trafficking $\geq 2,0 \text{ N/mm}^2$
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.

