

TECHNICAL DATA SHEET

ISONEM PU FLOOR 2K

(Glossy or Matt Colored Floor Coating)

Product Description

MATT COLORED FLOOR, it is a two-component, resin-based, self-leveling solvent-based floor coating. It forms an elastic and unique layer after drying. It is not affected by UV and outdoor weather conditions. It does not make yellowing, fading or peeling off in time. It is resistant to abrasion. It is not affected by pedestrian and vehicle traffic. It is resistant to various chemicals, and acids. Its adherence is perfect. It is polyurethane-based, solvent-based, two components.

- It is matte, hard-elastic.
- It has good chemical and mechanical resistance.
- The non-slip surface can be obtained.
- Liquids proof,
- Easy to apply, easy to clean and economical

Usage Areas

- In production and storage facilities, factories, etc. as a smooth surface coating on industrial floors.
- Pool edges, tourist facilities, coastline, walkways, squares, sidewalks, parks, and gardens.
- Wet working areas (food and beverage industry, etc.), parking floors and loading ramps.
- Ceramic, marble, and mosaic-covered terraces, balconies and wet areas.

Technical Specifications

Density A comp. (25°C, g/mL)	: 1,20 ± 0,10
pH (25°C)	: Not applicable (N/A)
Viscosity A comp. (25°C, mPa.s)	: 1000 - 4000
Solid content B comp. (% Weight)	: Not applicable (N/A)
Water transmission rate (kg/ m ² . h ^{0,5})	: < 0,1 CLASS W ₃
Adhesion strength by pull-off test (N/mm ²)	: Rigid system without trafficking ≥ 1.0 N/mm ²
Permeability to water vapour (m)	: S _D ≤ 5 CLASS I
Touch-free Drying	: 6 hours
Through-dry time	: 7 days
Pot life (23°C)	: 30 - 40 minutes
Solvent	: Organic solvent
Class of fire reaction	: B fl S1
Color	: Produced in RAL colors

Application Procedure

Surface requirements: The concrete surface must be clean, strong and with sufficient compressive strength (min. 25 N/mm²) and minimum tensile strength (pull off) of 1.5 N / mm². The surface should be clean, dry and free of impurities such as dirt, oil, coating, surface curing materials. In case of doubt, carry out a trial application.

Surface preparation: Concrete surfaces should be prepared using abrasive equipment to remove cement grout and obtain an open-pored surface. Weak concrete must be removed, the holes must be made completely open. Surface repairs, filling of cavities/holes and surface correction should be done with ISONEM M 03 Repair Mortar. Concrete or screed surfaces should be leveled to ensure a smooth surface. High places on the surface should be cleaned by sanding. All dust, loose and friable particles must be removed from the surface with a brush or vacuum cleaner prior to application of the product. Before application of ISONEM PU FLOOR 2K, ISONEM EP PRIMER or ISONEM ANTI RUST PRIMER specified in the table below should be used depending on the application surface.

Application method: It should be that ambient temperature is min +10°C, max. +30°C, surface moisture is 4%, relative air humidity is max. %70. It should be careful to the dew point. To reduce the risk of condensation or bubbles on the coating surface, the temperature of the surface and the uncured coating should be at least 3°C above the dew point. Mix the component A mechanically before mixing. After adding component B to component A, stir continuously for 2 minutes until a homogeneous mixture is obtained. It should be mixed with ISONEM PU FLOOR 2K electric mixer (300-400 rpm) or another suitable mechanical mixing tool. The application should be made with the help of roller, brush or spray gun in order to obtain the desired thickness.

Application Conditions / Limitations

Application	: In the same direction as the first
Surface humidity	: Dry surface
Primer usage	: ISONEM EP PRIMER. For concrete, marble, granite, tile, ceramic etc. surfaces: ISONEM ANTI RUST PRIMER (Consumption: 250 - 350 g/m ²)
Primer consumption	: 0,250 - 0,400 kg/m ²
Product usage	: 2 layers
Product consumption	: 0,50 - 0,60 kg/m ² (two layers)
Paintable (Coverage) Area	: min. 7,5 - 9 m ² /set (two layers)
Between two coats	: 12 hours
Recommended application tools	: Roller (synthetic epoxy), brush, suitable spray
Application temperature (°C)	: 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 EP PRIMER or ISONEM ANTI RUST PRIMER should be used depending on the application surface. ISONEM M03 elastic repair mortar should be used for filling cracks and gaps.

IMPORTANT

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

Packaging & Storage


Packaging	: 4,5 kg set (Component A: 4 kg, Component B: 0,5 kg metal galon)
Storage temperature (°C)	: 5 - 35 °C
Shelf life	: 24 months from date of production if stored in original, unopened, undamaged packages.
Storage condition	: 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/IZMIR ITOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19		
2765-CPR-0136 TS EN 1504-2: Surface protection systems for concrete - Coating (PU FLOOR 2K) DoP No: 36		
	STANDARD VALUE	CONTROL VALUE
Permeability to water vapour	Class I $S_D < 5$ m (permeable to water vapour) Class II $5 \text{ ms} \leq S_D \leq 50$ m Class III $S_D > 50$ m (not permeable to water)	Class I - 0,14 m
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,027 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Adhesion strength by pull-off test	Without trafficking $\geq 1,0 \text{ N/mm}^2$ With trafficking $\geq 2,0 \text{ N/mm}^2$	Rigid system without trafficking $3,9 \text{ N/mm}^2$
Dangerous substances comply with 5.4		
Class of fire reaction: C fl S1		

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.

