

TECHNICAL DATA SHEET

ISONEM METALLIC FLOOR

(Metallic Effect Floor Coating)

Product Description

METALLIC FLOORCOATING, it is a low viscosity, solvent-free, self-leveling, multi-purpose indoor flooring material that provides unique decorative image thanks to its two-component, reflective pigments and aesthetic effects. It is easy to apply, provides a glossy metallic surface, is water-impermeable and hygienic, easy to clean. It is resistant to mechanical loads, wear and chemicals. Suitable for use on all interior surfaces such as concrete, ceramic, marble, mosaic, steel, glass, etc..

- Provides decorative and a glossy finish.
- Resistant to friction, impact, and abrasion.
- Easy and piratic to clean.
- It can be applied quickly and easy, easy to maintain. It has high adhesion properties.
- Solvent-free. It has excellent penetration.

Usage Areas

- Showrooms, offices, houses, shopping malls
- All kinds of ceramic, concrete, marble, mosaic, wood, steel surfaces,
- Laboratory, food, chemical and pharmaceutical industries,

Technical Specifications

Density A comp. (25°C, g/mL)	: 1,10 ± 0,10
pH (25°C)	: Not applicable (N/A)
Viscosity A comp. (25°C, mPa.s)	: 1500 - 3500
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 , with trafficking ≥ 2,0 N/mm ²
Permeability to water vapour (m)	: 5 ≤ S _D ≤ 50 CLASS II
Touch-free Drying	: 8 - 10 hours
Through-dry time	: 7 days
Pot life (23°C)	: 30 - 40 minutes
Solvent	: Organic solvent
Class of fire reaction	: C fl S1
Color	: Produced in Metallic Floor Color Chart colors

Application Procedure

Surface preparation: Application surfaces should be clean, dry, and free of all oil, dirt, dust and surface wastes. Before ISONEM METALLIC FLOOR application, surfaces should be primed with ISONEM EP PRIMER or ISONEM ANTI RUST PRIMER specified in the table below depending on the application surface.

Mixture preparation: ISONEM METALLIC FLOOR is supplied in ready-to-use kits according to the mixing ratio. The mixture should be prepared to be applied according to the life of the mixture. Before starting to mixed, make sure that the material temperatures are between 15 and 25°C. Component A should be thoroughly mixed with a mechanical stirrer at 300 - 400 rpm for 3 to 4 minutes without dragging air in it. Subsequently, all of component B must be poured into component A and ensure that there is no material left inside the B component. A + B should be mixed for at least 3 minutes until a homogenous mixture is obtained and the prepared mixture should be consumed within 30 - 40 minutes.

Application method: The mixture should be applied to the prepared surface by brush or roller. If the thickness is desired, the second coat should be applied after the surface drying of the first layer has been achieved. For the formation of the metal effect and the decorative image, the desired metallic reflections can be given by the apparatus like a sponge, roller, epoxy roll, butterfly roll etc. within 1-2 hours after application of the product (when it has the consistency that can take shape, close to drying.). The hard drying time is 18-24 hours. Full hardening and physical, chemical resistance in 7 days.

Application Conditions / Limitations

Application	: In the same direction as the first
Surface humidity	: Dry surface For concrete, marble, granite, tile, ceramic etc. surfaces:
Primer usage	: ISONEM EP PRIMER. For metal/steel surface; ISONEM ANTI RUST PRIMER (Consumption: 250 - 350 g/m ²)
Primer consumption	: 0,250 - 0,400 kg/m ²
Product usage	: One layer
Product consumption	: 0,6 – 1,0 kg/m ²
Paintable (Coverage) Area	: 5 - 8 m ² /set
Between two coats	: X
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.

IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. It is suitable for interior using only.

Packaging & Storage


Packaging	: 5 kg set (Component A: 3,2 kg, Component B: 1,8 kg)
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/İZMİR İTOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19		
2765-CPR-0135 TS EN 1504-2: Surface protection systems for concrete - Coating (METALLIC FLOOR) DoP No: 24		
	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 II - 50 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 $\geq 1,0 \text{ N/mm}^2$ With trafficking $\geq 2,0 \text{ N/mm}^2$	Rigid system without trafficking $1,0 \text{ N/mm}^2$ with trafficking $2,0 \text{ N/mm}^2$
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.

