

## TECHNICAL DATA SHEET

# ISONEM FLOOR 3D

(Transparent Solvent Free Epoxy Coating)

### Product Description

It provides decorative and aesthetic flooring appearance. It allows to obtain a broader view with 3D images in confined spaces. Exceptional designs can be achieved by different visual designs on the floors. It is solvent-free, epoxy-based, transparent, two-component, protective finishing coat. It is resistant to scratches, impact, water and chemicals.

### Usage Areas

- Wet surfaces such as kitchen, bathroom and lavatory
- Stores and showrooms
- Shopping malls
- Halls and corridors
- Schools and kindergartens
- Hotels and museums
- Sport halls
- Offices
- Restaurants and cafes

### Technical Specifications

Density A comp. (25°C, g/mL)	: 1,02 ± 0,10
pH (25°C)	: Not applicable (N/A)
Viscosity A comp. (25°C, mPa.s)	: Not applicable (N/A)
Solid content B comp. (% Weight)	: Not applicable (N/A)
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 trafficking ≥ 1.0 N/mm <sup>2</sup> , with trafficking ≥ 2,0 N/mm <sup>2</sup>
Permeability to water vapour (m)	: 5 ≤ S <sub>D</sub> ≤ 50 CLASS II
Touch-free Drying	: 24 hours
Through-dry time	: 7 days
Pot life (23°C)	: 40 - 50 minutes
Solvent	: Organic solvent
Class of fire reaction	: C fl S1
Color	: Transparent

## Application Procedure

**Surface preparation:** FLOOR 3D application surface, prior to application, should be leveled so as to obtain a smooth and flat appearance. Weak particles and impurities that may have adverse effects on the adhesion should be removed from the surface. If there is any water leakage which will adversely affect the application, without eliminating problems the application should not be initiated. Before ISONEM FLOOR 3D application, surfaces should be primed with ISONEM EP PRIMER.

**3D Image Laying:** The selected 3D image is laid on a floor whose surface smoothness is achieved so that there will be no air bubbles on the surface.

**Mixture preparation:** ISONEM FLOOR 3D is supplied as ready to use kits according to the mixing ratio. Paying attention to the pot life, a required mixture of the amount of application should be prepared. Before starting the mixture it must be ensured that the material temperatures are between +15 and +25 °C. Component A should be thoroughly mixed with a mechanical mixer at 300 - 400 rpm for 3 - 4 minutes, without dragging air inside. Then, the complete contents of component B should be poured into component A and it should be ensured that there are no contents of component B remained. A+B should be mixed for at least 3 minutes until a homogeneous mixture is obtained and the prepared mixture should be consumed within 40-50 minutes.

**Application method:** Pouring the transparent mixture prepared homogeneous over the image, spreading is provided by a brush, roller or a suitable apparatus.

## Application Conditions / Limitations

<b><u>Application</u></b>	: In the same direction as the first
<b><u>Surface humidity</u></b>	: Dry surface
<b><u>Primer usage</u></b>	: ISONEM EP PRIMER
<b><u>Primer consumption</u></b>	: 0,250 - 0,400 kg/m <sup>2</sup>
<b><u>Product usage</u></b>	: 1 layer
<b><u>Product consumption</u></b>	: 0,3 - 0,4 kg/m <sup>2</sup> (It is variable depending on the application conditions)
<b><u>Paintable (Coverage) Area</u></b>	: 12 - 16 m <sup>2</sup> /1 set
<b><u>Between two coats</u></b>	: X
<b><u>Recommended application tools</u></b>	: Roller (synthetic epoxy), brush, suitable apparatus
<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 EP PRIMER should be used.

## 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

<b>Packaging</b>	: 5 kg set (A Component: 3,1 kg, B Component: 1,9 kg metal gallon)
<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 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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<b>Isonem Boya ve Yalıtım Teknolojileri</b> <b>İnş. San. Tic. A.Ş. - 35470/İZMİR</b> <b>ITOB OSB 10001 Sok. No:20 Tekeli Menderes /</b> <b>İzmir - TURKEY</b> 19		
<b>2765-CPR-0136</b> <b>TS EN 1504-2: Beton için yüzey koruma</b> <b>sistemleri - Kaplama (FLOOR 3D)</b> <b>DoP No: 43</b>		
	<b>STANDART DEĞER</b>	<b>KONTROL DEĞERİ</b>
<b>Su buharı geçirgenliği</b>	Sınıf I $S_D < 5$ m (su buharı geçen) Sınıf II $5 \text{ ms} \leq S_D \leq 50$ m Sınıf III $S_D > 50$ m (su buharı geçirmeyen)	Sınıf II - 50 m
<b>Kapiler su emme ve su geçirgenliği</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>Çekip koparma yoluyla yapışma dayanımı</b>	Trafik yükü olmadan $\geq 1,0 \text{ N/mm}^2$ Trafik yükü ile birlikte $\geq 2,0 \text{ N/mm}^2$	Rijit sistem trafik yükü olmadan $1,0 \text{ N/mm}^2$ trafik yükü ile birlikte $2,0 \text{ N/mm}^2$
Tehlikeli maddeler 5.4 ile uyumlu		
Yangına tepki sınıfı: 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.

