

TECHNICAL DATA SHEET

ISONEM JELBETON

(Cement-Based Self-Leveling Colored Gel Concrete)

Product Description

It is a polymer-modified, colored, UV-resistant, cement-based surface coating that resembles colored or concrete-looking and is resistant to cracking and shrinkage. It can be applied at a thickness of 1 to 10 mm.

- It is resistant to cracking and shrinkage.
- It is self-leveling.
- It has high adhesion to the applied surface.

Fields of Use

- Used on medium and heavy pedestrian traffic floors.
- Used as a self-leveling coating for interior and exterior surfaces with uneven floors between 1 and 10 mm thickness.
- Can be applied to concrete, ceramic, marble, and both old and new floor surfaces.

Technical Specifications

Compressive strength (Mpa)	: ≥ 10, CLASS R1
Chloride ion content (%)	: ≤ 0,05
Bond created through adhesion (Mpa)	: ≥ 0,8
Walkable Time	: 12 hours (+20°C)
Full cure	: 28 days (+20°C)
Pot life (23°C)	: 20 minutes (+20°C)
Solvent	: Water
Fire rating class	: A2 S1 d0
Color	: Grey, Yellow, Red, Blue, Green

Application Procedure

Surface Preparation:

The surface must be strong, stable, clean, and free of dust. Remove any oil, grease, or wax that could prevent proper adhesion. Clean away all loose particles and repair any surface damage. Avoid airflow in the application area to prevent drying issues. For large areas, use guides to keep the surface level and avoid unevenness.

Before applying ISONEM JELBETON leveling screed, prime the surface with ISONEM D10 LATEX. This primer helps extend the working time, improves adhesion, and reduces air bubbles. Apply ISONEM D10 LATEX undiluted with a brush at 200 mL per square meter. Start applying ISONEM JELBETON within 30 to 40 minutes after priming, while the primer is still wet and the surface is slightly tacky.

After 48 hours, it's recommended to apply a final coat of ISONEM LIQUID GLASS to protect the surface from stains, dirt, oil, and water, depending on how the surface will be used. This protective layer can be applied using a brush, roller, or suitable spray device, with a usage of 0.1 kg per square meter (one coat).

Preparation of Mixture:

Pour 4 liters of clean water into a clean mixing bucket for every 20 kg of JELBETON. Slowly add the material into the bucket while mixing with a low-speed mixer for 3–4 minutes until a homogeneous mixture is achieved. Let the mixture rest for about 2 minutes, then mix again for approximately 30 seconds before use

Mixture ratio: For a 20 kg bag: 4 liters of water

Application Method:

The prepared mortar is self-leveling. The thickness of the material is adjusted using a notched trowel. During setting, no water should be added. Air bubbles on the surface should be removed with a spiked roller. Sudden temperature changes in the application area should be avoided. The application should not be carried out in areas exposed to direct sunlight or wind.

Application Conditions / Limitations

<u>Application</u>	: Gel concrete for floor applications
<u>Surface moisture</u>	: Slightly damp / moist surface
<u>Primer use</u>	: ISONEM D 10 LATEX
<u>Primer consumption</u>	: 200 ml/m ²
<u>Product application</u>	: 1 coat
<u>Product consumption</u>	: 2-4 kg /m ² (powder form) Min 5-10 m ² per 1 kraft bag (The given consumption
<u>Paintable (Coatable) Area</u>	: values are approximate and may vary depending on the smoothness of the surface and application thickness.)
<u>Waiting time between coats</u>	: X
<u>Recommended application tools</u>	: Self levelling, notched trowel
<u>Application temperature (°C)</u>	: 5 - 25 °C

Important Considerations During Application:The product is suitable for use at temperatures between +5°C and +25°C. If the ambient or substrate temperature is outside this range, wait until conditions are suitable before proceeding. Do not apply the product in extremely hot or windy conditions.

Other recommended ISONEM products:

To improve adhesion and water resistance, ISONEM D 10 LATEX and ISONEM LIQUID GLASS should be used.

IMPORTANT

The surface should be protected from rain, water, mechanical loads, and impacts for 24 hours during and after application. After application, wait at least three days before applying any surface coating over the material.

Packaging & Storage

<u>Packaging</u>	: 20 kg Kraft bag
<u>Storage temperature (°C)</u>	: 5 - 35 °C
<u>Shelf life</u>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<u>Storage condition</u>	: 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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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 1504-3: Concrete repair product for non- Structural repair CC mortar (modified hydraulic cement based) (ISONEM JELBETON) DoP No: 55		
	STANDARD VALUE	CONTROL VALUE
Compressive strength	Class R1 ≥ 10 Mpa	11
Chloride ion content	\leq % 0,05	0,01
Adhesive bond	$\geq 0,8$ Mpa	0,9
Reaction to fire	Class A2	Class A2
Dangerous substances comply with 5.4		
Class of fire reaction: A2 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.

