

TECHNICAL DATA SHEET

ISONEM DIAMOND PAINT

(Glossy Interior-Exterior Paint)

Product Description

ISONEM DIAMOND PAINT is a special interior and exterior paint which is a water-based, long-lasting, flexible and solid structured, dirt and stain-repellent, washable/wipeable, resistant to all weather conditions, bright and has vivid colors. Thanks to its bright structure, it does not require any extra application such as polish or varnish. It is harmless to health and environmentally friendly. It does not swell and spill, has high covering power and provides a permanent decorative appearance on the interior and exterior of the buildings with glossy and vibrant colors. Thanks to its UV resistance, its colors preserve the vitality and brightness of the first day. It is resistant to moisture and water, and has high alkali and chemical resistance.

- It is odorless and environmentally friendly, does not contain VOCs and solvents.
- It has high elasticity, does not crack.
- Water and moisture resistant, washable.
- Provides a decorative appearance with vivid and bright colors.
- It has high covering power.

Usage Areas

It is used as a bright interior and exterior coating and paint on the exterior and interior facades of buildings, all kinds of walls, jambs, wood and metal surfaces with antirust primer.

Technical Specifications

Density (25°C, g/mL)	: 1,20 ± 0,10
pH (25°C)	: 7,0 – 9,0
Viscosity (25°C, mPa.s)	: 9500 - 10500
Solid content (% Weight)	: 50 ± 2
Water transmission rate (kg/ m ² . h ^{0,5})	: < 0,1 CLASS W ₃
Adhesion strength by pull-off test (N/mm ²)	: Crack bridging flexible systems without trafficking ≥ 0,8, with trafficking 1,5 N/mm ²
Permeability to water vapour (m)	: 5 ≤ S _D ≤ 50 CLASS II
Touch-free Drying	: 3 hour
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 surface must be firm, clean and dry. All surfaces should be cleaned from oil, dirt and all kinds of residues before application. ISONEM DIAMOND PAINT product itself should be diluted with 200% water and used as a primer on concrete, plastered, previously painted walls (1 kg DIAMOND PAINT, 2 kg Water). The prepared primer is fed to the surface with a stiff brush. After the primer application, it should be left to dry for at least 1 hour. Before application on surfaces such as sheet/metal, the surface should be primed with ISONEM Anti Rust Primer (Anticorrosive Primer) with consumption of 0.250 - 0.350 kg / m².

Application method: ISONEM DIAMOND PAINT is ready to use, it can be used by diluting with 10% water if a smooth appearance is desired in interior and exterior applications, and should be used without dilution for textured appearance. It is applied on the primed surface in two layers with a brush, roller or a suitable sprayer. Waiting time between coats is at least 4 hours.

Application Conditions / Limitations

Application	: In the same direction as the first
Surface humidity	: Dry surface
Primer usage	: For concrete, raw wood, membrane, shingle etc. surfaces: ISONEM DIAMOND PAINT (diluted). For metal/steel surface; ISONEM ANTI RUST PRIMER (Consumption: 250 - 350 g/m ²)
Primer consumption	: 100 - 200 g/m ²
Product usage	: 2 layers
Product consumption	: 200 - 400 g/m ² (Two layers application) 300 - 500 g/m ² (Two layers application, textured)
Paintable (Coverage) Area	: 10 kg: 25 - 50 m ² / bucket (Two layers application) 18 kg: 45 - 90 m ² / bucket (Two layers application)
Between two coats	: 4 hours
Recommended application tools	: Roller (synthetic epoxy), brush, 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 DIAMOND PAINT 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.

Packaging & Storage


Packaging	: 10 kg and 18 kg PP in buckets
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.

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-0136 TS EN 1504-2: Surface protection systems for concrete - Coating (DIAMOND PAINT) DoP No: 50		
	STANDARD VALUE	CONTROL VALUE
Permeability to water vapour	Class I $S_D < 5$ m (permeable to water vapour) Class II $5 \text{ ms} S_D \leq 50$ m Class III $S_D > 50$ m (not permeable to water)	Class II - 40 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 $\geq 0,8 \text{ N/mm}^2$ With trafficking $\geq 1,5 \text{ N/mm}^2$	Crack bridging flexible systems without trafficking $0,8 \text{ N/mm}^2$ with trafficking $1,5 \text{ N/mm}^2$
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.

