

TECHNICAL DATA SHEET

ISONEM D 10 LATEX

(Adherence Enhancer)

Product Description

It is a liquid that is applied by adding to the mortar or applying to the surface in the application of concrete, plaster, screed, cement-based insulation or ceramic, and add the adhesion strength, elasticity, and adherence-enhancing properties to the mortar. It bonds the old or new materials that will come together by forming a super sticky area on the surface applied and provides excellent adhesion. It prevents the formation of cold joints in concrete, plaster and screed applications. It is applied on humid or dry surfaces. It can be used as a primer on highly absorbent surfaces. ISONEM D10 LATEKS increases mechanical strength when used as a primer to the surface prior to insulation. Thus, the insulation materials adhere better to the surface and do not flake and swell up. It provides an easy application of mortar by plastify the mortars in which it is used. Prevents rapid drying by increasing the water holding capacity of the mortar. Prevents shrinkage cracks. It increases the abrasion resistance of the mortar and prevents dusting in screed applications. Increases freezing and thawing resistance. Reduces oil and solvent permeability. Improves resistance to chemicals. ISONEM D 10 LATEX is a water-based, acrylic emulsion-based, single component.

Usage Areas

- In all kinds of cement mortars,
- In plasters and screeds,
- In mortars of tiles and ceramic adhesives
- Repair mortars, cold joints,
- In places where needed adherence in concrete repairs
- In pre-plastering applications,
- To be used as a primer before waterproofing applications.

Technical Specifications

Density (25°C, g/mL)	: 1,00 ± 0,10
pH (25°C)	: 7.0 – 9.0
Viscosity (25°C, mPa.s)	: 500 - 1500
Solid content (% Weight)	: 18 ± 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	: X
Through-dry time	: X
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: B S1 d0
Color	: Transparent

Application Procedure

Surface preparation: The application surfaces should be dry or slightly humid. The moisturizing process should be done until the surface is full. All surfaces must be clean and all impurities that affect the adhesion like dirt, oil, sludge, rust, etc. should be removed. All surfaces must be clean and free of particles. All layers that affect the adhesion like oil, dirt, paint, cement laitance, rust, and salt efflorescence should be cleaned.

Application method

For adherence: ISONEM D10 LATEX is applied to the surface with 200 g/m² brush without thinning. The mortar or bonding process is done to on it immediately after application, when it is wet, in latest 30 - 40 minutes.

For concrete and mortar additives: It should be used by adding 1 kg/m³ to the water of the mortar in the production of 1 m³ concrete or mortar. In ISONEM M 03 elastic mortars (20 kg), approximately 1 kg of ISONEM D10 LATEX should be added to a bucket and then enough water should be added (3 L).

Application Conditions / Limitations

Application	: In perpendicular to each layers
Surface humidity	: Dry / slightly humid surface
Primer usage	: X
Primer consumption	: X
Product usage	: 1 layer
Product consumption	: 200 g/m ² (for adherence), 1 kg/m ³ (for additive)
Paintable (Coverage) Area	: For adherence 25 m ² /5 kg, for additive 5 m ³ /5 kg For adherence 50 m ² /10 kg, for additive 10 m ³ /10 kg For adherence 100 m ² /20 kg, for additive 20 m ³ /20 kg
Between two coats	: X
Recommended application tools	: Brush
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. Apply without thinning. The application surface may be dry or slightly humid.

Other ISONEM products recommended: -

IMPORTANT

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

Packaging & Storage


Packaging	: 5, 10, 20 kg in PE can
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 Boya ve Yalıtım Teknolojileri İnş. San. Tic. A.Ş. - 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 (D10 LATEX) DoP No: 11		
	STANDARD VALUE	CONTROL VALUE
Permeability to water vapour	Class I $S_D < 5$ m (permeable to water vapour) Class II $5 \text{ m} \leq S_D \leq 50$ 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.

