

TECHNICAL DATA SHEET

ISONEM UNIVERSAL PRIMER

(Acrylic Emulsion Based Concentrated Primer)

Product Description

ACRYLIC EMULSION BASED CONCENTRATE PRIMER, water-based, one component, transparent, suitable using for inner and outer surfaces is a universal primer.

It penetrates the surface very well. By preparing a strong surface, it bonds the top coat paint to the surface, reduces the paint consumption and reduces the water absorbency of the plasters. It is a primer that also has a high adhesion performance in water-based waterproofing materials and wall putty applications.

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)	: 8000 - 10000
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	: 30 minutes
Through-dry time	: 4 hours
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: B S1 d0
Color	: Transparent

Application Procedure

Surface preparation: Before application, swollen, loose and unhealthy looking surfaces should be scrapped, oil and dirt should be wiped off with water. If the salt release continues on the surface, the application should not be carried out until the causes are eliminated.

Application method: ISONEM UNIVERSAL PRIMER is mixed thoroughly until it is homogenous before use, and diluted with water 7 times by volume. It is impregnated to the surface by brush or roller as a single layer. The paint or insulation product application should be after a minimum drying time of 4 hours.

Application Conditions / Limitations

<u>Application</u>	: Horizontal / Vertical
<u>Surface humidity</u>	: Dry surface
<u>Primer usage</u>	: X
<u>Primer consumption</u>	: X
<u>Dilution ratio</u>	: 1: 7 (1 Part Universal Primer: 7 Part Water)
<u>Product usage</u>	: 1 layer primer application
<u>Product consumption</u>	: 100 – 200 g/m ² (diluted, variable according to the absorbency of the surface)
<u>Paintable (Coverage) Area</u>	: 1 kg: 40 - 80 m ² /1 bucket 5 kg: 200 - 400 m ² /1 bucket 10 kg: 400-800 m ² /1 bucket 15 kg: 600 - 1200 m ² /1 bucket
<u>Between two coats</u>	: X
<u>Recommended application tools</u>	: Roller (synthetic epoxy), brush, spray
<u>Application temperature (°C)</u>	: 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 a single coat to the surface and leave for 4 hours to dry before the other application.

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. It should not be applied in very windy and direct sunlight.

Packaging & Storage


<u>Packaging</u>	: 1 kg, 5 kg, 10 kg and 15 kg PP Buckets.
<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 ITOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19		
2765-CPR-0136 TS EN 1504-2: Surface protection systems for concrete - Coating (UNIVERSAL PRIMER) DoP No: 39		
	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.

