

TECHNICAL DATA SHEET

ISONEM EP PRIMER

(Solvent Free Epoxy Primer)

Product Description

SOLVENT FREE EPOXY PRIMER, it is transparent, hygienic primer material. It is easy to apply, it has perfect adherence. It is epoxy resin base, solvent-free, two component. It has very good penetration, low viscosity and moisture tolerance. It increases the concrete strength by filling the capillary cavities of the concrete floors and acts as an adherence bridge for the epoxy or polyurethane topcoat paints and coatings.

Technical Specifications

Density A comp. (25°C, g/mL)	: 0,90 ± 0,10
pH (25°C)	: Not applicable (N/A)
Viscosity B comp. (25°C, mPa.s)	: 0 - 500
Solid content B comp. (% Weight)	: Not applicable (N/A)
Water transmission rate (kg/ m ² . h ^{0,5})	: < 0,1 CLASS W ₃
Adhesion strength by pull-off test (N/mm ²)	: Rigid system without trafficking ≥ 1.0 N/mm ² , with trafficking ≥ 2,0 N/mm ²
Permeability to water vapour (m)	: 5 ≤ S _D ≤ 50 CLASS II
Touch-free Drying	: 8 - 10 hours
Through-dry time	: 7 days
Pot life (23°C)	: 30 - 40 minutes
Solvent	: Organic solvent
Class of fire reaction	: C fl S1
Color	: A: Transparent, B: Brown liquid

Application Procedure

Surface preparation: All free loose material must be removed from the surface. All oil and dirt on the surface should be cleaned by blasting with sandblasting. The temperature of the surface should be + 3°C above the dew point when the application is done.

Mixture preparation: ISONEM EP PRIMER is supplied in ready-to-use kits according to the mixing ratio. The mixture should be prepared to be enough amount for application by taking into account the life of the mixture. Before starting mixing, ensure that the material temperatures are between 15 and 25°C. Component A should be thoroughly mixed with a mixer at 300 - 400 rpm for 2 - 3 minutes without entraining air. Subsequently, all of component B must be poured into component A and ensure that there is no material left inside the B component. Mix for at least 4 minutes until a homogeneous mixture is obtained and the prepared mixture should be consumed within 30 - 40 minutes.

Application method: ISONEM EP PRIMER should be applied with brush or roller in order to obtain the desired thickness. When the mixture is got the suitable consistency, if it is necessary, the air of the application should be removed via spiked roller.

Application Conditions / Limitations

<u>Application</u>	: Horizontal
<u>Surface humidity</u>	: Dry / slightly humid surface
<u>Primer usage</u>	: X
<u>Primer consumption</u>	: X
<u>Product usage</u>	: Primer application
<u>Product consumption</u>	: 0,25 - 0,4 kg/m ²
<u>Paintable (Coverage) Area</u>	: 12,5 - 20 m ² /set
<u>Between two coats</u>	: 24 hours
<u>Recommended application tools</u>	: Roller (synthetic epoxy), brush, suitable 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.

Other ISONEM products recommended: ISONEM M 03 elastic repair mortar should be used for filling cracks and voids mortar.

IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. A and B components should be consumed within 30-40 minutes after mixing (23°C). At lower temperatures, the pot life is extended and at higher temperatures, the pot life is shortened.

Packaging & Storage


<u>Packaging</u>	: 5 kg set (Component A: 3,1 kg can, Component B: 1.9 kg can)
<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 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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Isonem Paint and Insulation Technologies Construction Industry Trade Inc. - 35470/IZMIR ITOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19		
2765-CPR-0136 TS EN 1504-2: Surface protection systems for concrete - Coating (EP PRIMER) DoP No: 13		
	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 - 50 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 $\geq 1,0 \text{ N/mm}^2$ With trafficking $\geq 2,0 \text{ N/mm}^2$	Rigid system without trafficking $1,0 \text{ N/mm}^2$ with trafficking $2,0 \text{ N/mm}^2$
Dangerous substances comply with 5.4		
Class of fire reaction: 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.

