

## TECHNICAL DATA SHEET

# ISONEM ANTI RUST PRIMER

(Anticorrosive Primer)

### Product Description

Anticorrosive Primer is an epoxy resin-based anticorrosive primer that is applied directly to all metal surfaces and protects the surface it is applied against corrosion thanks to its high anticorrosive structure. In addition to excellent adhesion, it dries quickly and is easy to work with.

### Usage Areas

Suitable for use as an anti-corrosive primer on all metal surfaces where corrosion resistance is required. It is also used for corrosion protection of concrete structures. It is used as a primer before applications of Isonem Ant fire Paint Plus for Steel Structures 120 min Fire Resistant Paint and Isonem Thermal Paint PU Roof and Metal Surface Heat Insulation Paint.

### Technical Specifications

Density A comp. (25°C, g/mL)	: 1,55 ± 0,10
Viscosity A comp. (25°C, mPa.s)	: 2000 - 4000
pH (25°C)	: Not applicable (N/A)
Density A+B comp. (25°C, mPa.s)	: 1,50
Viscosity A+B comp. (25°C, mPa.s)	: 1000 - 2000
Solid content B comp. (% Weight)	: Not applicable (N/A)
Water transmission rate (kg/ m <sup>2</sup> . h <sup>0.5</sup> )	: < 0,1 CLASS W <sub>3</sub>
Adhesion strength by pull-off test (N/mm <sup>2</sup> )	: Rigid system without trafficking ≥ 1.0 N/mm <sup>2</sup> , with trafficking ≥ 2,0 N/mm <sup>2</sup>
Permeability to water vapour (m)	: 5 ≤ S <sub>D</sub> ≤ 50 CLASS II
Touch-free Drying	: 5 - 6 hours
Through-dry time	: 7 days
Pot life (23°C)	: 2 - 3 hours
Solvent	: Organic solvent
Class of fire reaction	: C fl S1
Color	: Off-white

### Application Procedure

**Surface preparation:** Application surfaces should be cleaned from foreign objects which reduce adhesion like oil, dust, dirt, etc., and completely dry and clean. Metal surfaces should be sandblasted at least Sa 2 ½ degree and they should be primed with Isonem Anti Rust Primer within 6 hours. After hard drying of the primer is completed (5 - 6 hours later), It is proceed to topcoat application. It should be noted that temperatures of materials are min. +15°C before application. Component A is mixed with a low-speed mixer with the appropriate mixing tip and hardener component B is added while continue mixing. Care should be taken to ensure that the walls and bottom of the container are mixed well and that the mixture is homogeneous.

**Application method:** It is produced in ready-to-use sets according to mixing ratios. No thinning is required. After the mixture is rested for 10-15 minutes, it is applied with a short hard bristle brush, short hair roller or airless spray. When the second coat application is required, the application of the second coat should be done when the surface of the first coat dries. If this time has elapsed, the surface should be roughened before the topcoat application.

## Application Conditions / Limitations

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<b><u>Application</u></b>	: Horizontal / Vertical
<b><u>Surface humidity</u></b>	: Dry surface
<b><u>Primer usage</u></b>	: X
<b><u>Primer consumption</u></b>	: X
<b><u>Product usage</u></b>	: Primer application
<b><u>Product consumption</u></b>	: 0,25 - 0,30 kg/m <sup>2</sup>
<b><u>Paintable (Coverage) Area</u></b>	: 15 - 20 m <sup>2</sup> /set
<b><u>Between two coats</u></b>	: 5 - 24 hours
<b><u>Recommended application tools</u></b>	: Roller (synthetic epoxy), brush, suitable spray
<b><u>Application temperature (°C)</u></b>	: 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 gaps on concrete surfaces.

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## IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. Component A and component B should be consumed within 2-3 hours after mixing (23°C). At lower temperatures the mixing life is extended and at higher temperatures the mixing life is shortened.

## Packaging & Storage

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<b><u>Packaging</u></b>	: 5 kg set (Component A 4,5 kg canister, Component B 0,5 kg canister)
<b><u>Storage temperature (°C)</u></b>	: 5 - 35 °C
<b><u>Shelf life</u></b>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<b><u>Storage condition</u></b>	: Store tightly closed in a dry and cool place away from heat and fire.


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## 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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<b>Isonem Paint and Insulation Technologies Construction Industry Trade Inc. - 35470/İZMİR ITOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19</b>		
<b>2765-CPR-0135 TS EN 1504-2: Surface protection systems for concrete - Coating (ANTI RUST PRIMER) DoP No: 46</b>		
	<b>STANDARD VALUE</b>	<b>CONTROL VALUE</b>
<b>Permeability to water vapour</b>	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
<b>Capillary absorption and permeability to water</b>	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,05 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
<b>Adhesion strength by pull-off test</b>	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.

