

## TECHNICAL DATA SHEET

# ISONEM ANTI SOUND PAINT

(Sound Insulation Paint)

### Product Description

ANTI SOUND PAINT, it is an acoustical paint for damping and blocking of noise that is designed to absorb and isolate sound in the best way. According to TS 140-4 Standard, in the results of the measurement and analysis, the applied paint, in 1/3 octave frequency in terms of dB, according to 1000 Hz;

- When applied with a thickness of 1 mm, till 2,51 dB
- When applied with a thickness of 2 mm, till 4.85 dB

It has been certified by the Turkak approved accredited laboratories where it has reduced and absorbed the sound. Water-based and single-component ISONEM Anti Sound Paint can be produced in desired colors. Besides sound insulation, it is resistant to fire due to its late inflammability and non-flammable properties. It is water based, acrylic emulsion-based, one component. It can be used as interior and exterior sound insulation paint in all places where noise is not desired.

### Usage Areas

- In apartments, hospitals and hotels, schools, nurseries,
- In engine and engine rooms,
- In entertainment venues, cinema and theater halls,
- Vehicle and yachts, military facilities, shooting ranges.

### Technical Specifications

Density (25°C, g/mL)	: 1,0 ± 0,15
pH (25°C)	: 7.0 – 9.0
Viscosity (25°C, mPa.s)	: 12500 - 13500
Solid content (% Weight)	: 53 ± 2
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> )	: Crack bridging flexible systems without trafficking ≥ 0.8,
Permeability to water vapour (m)	: 5 ≤ S <sub>D</sub> ≤ 50 CLASS II
Touch-free Drying	: 2 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:** Before application, the surfaces must be clean, free of oil, dirt, mud and loose parts should be cleaned. The appropriate primer selection depending on the surface is made according to the following table. ISONEM UNIVERSAL PRIMER (1: 7 diluted with water - 1 part primer, 7 part water) insulation and paint primer should be applied one layer with 100 - 200 g/m<sup>2</sup> consumption. The primer is then allowed to dry for 4 hours.

**Application method:** ISONEM ANTI SOUND PAINT is easily applied by roller, brush or spray. The product should be mixed homogeneously before using it. Then it is applied in layers of 1 - 2 mm at 4-hour intervals. In the interior wall applications which it is not wanted pattern, we recommend that the application should be with an epoxy roller.

## Application Conditions / Limitations

<b><u>Application</u></b>	: In perpendicular to each layers
<b><u>Surface humidity</u></b>	: Dry surface <b>For concrete, raw wood, membrane, shingle etc. surfaces:</b> ISONEM UNIVERSAL PRIMER (diluted)
<b><u>Primer usage</u></b>	: <b>For metal/steel surface;</b> ISONEM ANTI RUST PRIMER (Consumption: 250 - 350 g/m <sup>2</sup> )
<b><u>Primer consumption</u></b>	: 100 - 200 g/m <sup>2</sup>
<b><u>Product usage</u></b>	: 4 layers
<b><u>Product consumption</u></b>	: 1 L/m <sup>2</sup> (for 1 mm thickness) 2 L/m <sup>2</sup> (for 2 mm thickness)
<b><u>Paintable (Coverage) Area</u></b>	: 9 - 18 m <sup>2</sup> /bucket
<b><u>Between two coats</u></b>	: 4 hours
<b><u>Recommended application tools</u></b>	: Roller (synthetic epoxy), brush, spray
<b><u>Application temperature (°C)</u></b>	: 5 - 35 °C
<b><u>Things to consider during and after the application:</u></b> The application surface must be clean and free from all impurities like dirt, oil, and mud. In the interior wall applications which it is not wanted pattern, we recommend that the application should be with an epoxy roller.	
<b><u>Other ISONEM products recommended:</u></b> In primer application, ISONEM UNIVERSAL PRIMER 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


<b><u>Packaging</u></b>	: 18 L PP bucket
<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.

## 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 (ANTI SOUND PAINT) DoP No: 02		
	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 $0,8 \text{ N/mm}^2$
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.

