

## TECHNICAL DATA SHEET

# ISONEM SS SOIL HARDENER

(Soil Stabilizer)

### Product Description

It is an ecological solution used for stabilizing, solidification, hardening or anti-dusting all kinds of soils and aggregates. Immediately after application to soil or aggregate, ISONEM SS copolymer molecules form long nanoparticles by forming straight and cross-linking with aggregate or soil. When the water content added during the application evaporates from the soil and aggregate, it forms a long-lasting and water-resistant flexible solid material matrix. After curing, it becomes completely transparent and makes the natural cover look untouched. It is water-based, one component.

### Usage Areas

- Dirt roads without coating
- Land improvement
- Construction site areas and roads, construction site parking areas
- Heavy vehicle roads
- Road foundation and sub-foundations, highway banquetts
- Warehouse and stock piles
- Power plants, slopes, and banquetts
- Helicopter test tracks, forest roads
- Airport aprons, agricultural access roads
- Mine deposits and sites, border patrol roads
- Golf courses and walking paths, park and recreation areas

### Technical Specifications

Density (25°C, g/mL)	: 1,00 ± 0,10
pH (25°C)	: 7.0 – 10.0
Viscosity (25°C, mPa.s)	: 4000 - 9000
Solid content (% Weight)	: 50 ± 2
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: B S1 d0
Color	: Milk white, after curing transparent and can be colored if desired.

### Application Procedure

ISONEM SS Soil Hardener is a concentrated ready to use solution. Application area should be completely dry and free from water. The area must be free from rain for a minimum of 72 hours after the application. Temperature must be at least 4°C.

**Ripper the soil:** Cause the application to the desired depth (usually 150 to 200 mm) with the help of a digger dug. At this stage, grader, rototiller or disc harrow is used for coarse materials crumble.

**Moistening the soil with Isonem SS Soil Hardener:** Isonem SS Soil Hardener is mixed with pre-tested water that is determined according to the type of soil, in the tank and it is brought into solution. The mixture was then sprayed on the soil surface to show an equal amount of distribution. Spraying is continued until the ground is sufficiently moist.

**Mixing the soil:** The moistened soil by applying the solution is mixed thoroughly by taking into account the desired depth.

**Soil compaction:** SS Soil Hardener applied soil is compacted via a cylinder. After the compaction process is completed, the application surface can be opened to traffic after 7 days. Heavy loads must not be carried on the area before this period is completed. The time may be longer or shorter depending on weather conditions.

## Application Conditions / Limitations

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<b>Product consumption</b>	:	<b>For heavy vehicle traffic on dirt roads</b> _____	1 L ISONEM SS + 4 L water
		<b>For pedestrian traffic</b> _____	1 L ISONEM SS + 6 L water
		<b>For use against dust only</b> _____	1 L ISONEM SS + 8 L water
		<b>In areas with very heavy cargo traffic and construction sites such as airports</b> _____	1 L ISONEM SS + 1 L water

**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. The amount of product use should be determined by pre-tests before application.

**Other ISONEM products recommended:** -

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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.

## Packaging & Storage

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<b>Packaging</b>	:	5 L, 10 L and 20 L PE Plastic can
<b>Storage temperature (°C)</b>	:	5 - 35 °C
<b>Shelf life</b>	:	24 months from date of production if stored in original, unopened, undamaged packages.
<b>Storage condition</b>	:	Store tightly closed in a dry and cool place.

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## 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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### 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.



**ISONEM BOYA VE YALITIM TEKNOLOJİLERİ İNŞ. SAN. TİC. A.Ş.**

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