

ISONEM[®] ANTI RADIATION PAINT



Electromagnetic Radiation Preventive Paint

ISONEM ANTIRADIATION PAINT is a kind of paint that has a feature of showing shield speciality against electromagnetic radiation in low and high frequency and isolating radiation by absorbing electromagnetic field in the environment. There is no heavy metals or chemicals that threaten human health within its content.

USAGE AREAS: It can be used for the prevention of electromagnetic radiations negative effects that comes from GSM base stations, TV and radio transmitters, radar, radio, wireless networks and housing areas, interior and exterior; in critical areas such as hospitals, military facilities and nuclear power plants; besides electronic devices that are being used in daily life such as (TV, radio, refrigerator, iron, microwave, washing machine, dishwasher, phones and etc. and isolation of electromagnetic radiations comes from special life areas.

Magnetic Field Effects on Humans in Short Term

- Stress,
- Narrowing of the field of view,
- The risk of deterioration of cardiac pacemakers,
- Ringing in the ears,
- Feeling of tiredness,
- Concentration corruption,
- Headaches,
- Temporary disruptions in hearing,
- Dizziness,

TECHNICAL SPECIFICATIONS: • Color: Black • Density : 1,3(±0,1) • pH : 7-10

AS PER THE RESULTS OF MEASUREMENTS MADE IN ELECTRICAL AND ELECTRONICAL ENGINEERING DEPARTMENT OF DOKUZ EYLÜL UNIVERSITY;

Shielding property was observed in GSM 900 MHz frequency band up to 30 dB (1000 times the power weakening, 99.9%). The average values of the respective samples of commonly used shielding special-purpose communication frequency domains are given in the table.

Decibel and the percentage weakening results

	810 - 915 MHz GSM 900	1785 -1805 MHz GSM 1800	2110-2200 Mhz 3G	2400-2500 MHz WIFI-BT
Decibel of Shielding	30dB	24dB	22dB	19dB
Percentage of Shielding	%99,9	%99,6	%99,2	%98,7

ELECTRIC FIELD INTENSITIES CAUSED BY HOUSE HOLD: • Electric Blanket: 250 V/m • Microwave Owen: 250 V/m • Water Heater 130 V/m • Notebook (Wireless When Wireless Is On/Connected): 100 V/m • Music Stereo: 90 V/m • Back of The Monitor (tüplü): 80 V/m • Fridge: 60 V/m • Iron: 60 V/m • Mixer: 50 V/m • Toaster: 40 V/m • Hair Dryer: 40 V/m • Television: 30 V/m • Coffee Machine: 30 V/m • Front Of Computer Monitor (Wiht Tupe) (tüplü): 25 V/m • Vacuum Cleaner: 16 V/m • Wireless modem: 5-10 V/m • Base Station: 10 V/m

ISONEM ANTIRADIATION PAINT is being used in the areas that shielding is required and shielding need is needed as sub painting in various amounts. Although there is no difference between measurement made with or without grounding, usage with grounding is suggested if applicable.

APPLICATION: Surfaces that application will be made, should be removed from any kind of grease, dirt and rust. **ISONEM ANTIRADIATION PAINT** ready to implement, should be applied as one or two layers as per desired electromagnetic radiation shielding activity, including the interior wall and ceilings. Except ground of the application, the entire inner surface of the wall should be implemented without spaces. Application is being made with a brush. After the first layer dries, top of the grounding equipment is being inserted to grounded plug and silver wire part of apparatus is being pasted on paint with acrylic putty or plaster and etc. After putty dries another layer of **ISONEM Antiradiation Paint** is being applied on it. After the late layer dries, painting can be made or it can be covered with wallpaper and etc. This application does not make any weakening effects of the features of **ISONEM ANTIRADIATION PAINT**.

PACKAGING: 10 kg PE bucket.

CONSUMPTION: 1-1,5 kg/m² (2 layers)

STORAGE CONDITIONS/SHELF LIFE: 24 months from date of production if stored properly in unopened and undamaged original sealed containers at temperatures between +5°C to +35°C at dry conditions. Protect from excessive temperature and frost.

STORAGE: Original, in unopened package, in cool and dry environment for 12 months.

Magnetic Field Effects on Humans in Long Term

- The death of brain cells and brain tumor risk,
- White blood cells (lymphoma) cancer,
- Damage to blood-brain barrier,
- Heart disease,
- Memory impairment,
- Permanent hearing impairment,
- The damage to the embryonic development,
- Increased risk of miscarriage,
- Degradation of blood cells.

