

Rust stop graphite enamel for metal 3in1

Specification

The RustStop Graphite Enamel 3in1 TM Maxima, which functionally unites adhesion primer, anticorrosion protection and finishing enamel in it. It doesn't require prior usage of special products for removing pf corrosion and undercoating. It creates an anti-corrosion coating and resists water and weather effects, UV-rays, industrial oils, and detergents. It also creates a decorative structural coat **with a "metallic" effect** that masks small defects of the surface and corrects uneven areas on the surface (joints, locally repaired areas, scale, etc.). It dries quickly and several layers of the enamel can be applied during a day.



Sphere of application

It is intended for protection against corrosion and decorative coating of metal surfaces (clean, coated, or covered with corrosion) of steel, iron, stainless steel, colored metals (fences, gates, building constructions, farming machinery, metal boxes, lathes, metal window frames and doors, elements of decoration, etc.), and also for wooden surfaces indoors and outdoors.

Technical data

Consumption standard of 1 layer	100-150 g/m ² , depending on the way of application and type of surface.
Thinner	Universal thinner TM Maxima, 30% maximum of the total enamel weight. WARNING! Do not use white spirit, solvent and others similar products.
Application	Apply with a short haired roller, a brush or a spraying gun.
Drying period (23 °C, 50% RH)	1 hour. Drying period increases if the temperature is getting down and relative air humidity is getting higher.
Solids content (DSTU ISO 3251)	56,5±2 % (Silver) 59,5±2 % (other colors)
Density (DSTU ISO 2811-1)	≈ 1,13 г/см ³ (Silver) 1,16±0,02 г/см ³ (other colors)
Particle size	max. 150 micron
Non-volatile matter by volume (DSTU ISO 3233)	44±2 % (Silver) 47±2 % (other colors)
VOC content (ISO 11890)	490±5 г/л (Silver) 460±10 г/л (other colors)
Warranty period	24 months from the date of manufacturing.
Packaging	0,75 kg, 2,3 kg
Color	antique copper, bronze, green, brown, silver, grey, dark blue, black, chocolate.

Composition

Modified alkyd resin, pearlescent pigments, anticorrosion extenders, thinner, corrosion inhibitor, additives.

Application instruction

The condition of receiving a desired result is following directions for using the paint product and the preparation of the surface.

1 Surface preparation

The surface must be dry, thoroughly clean of dust, dirt, mould, corrosion, oily and other contaminations, and peeled paint coatings till the hard base surface.

Use these methods of cleaning: mechanical (a scratcher or wire brush), thermal (a heat gun or infrared radiation), and chemical (paint-removal solutions). Avoid using a cleaning option that can damage the base surface.

Metal surfaces shall be treated manually with mechanical instruments (min stage St2) or abrasive jet sander (min stage Sa2½) according to DSTU ISO 8501-1. Degrease it with Universal diluent TM Maxima.

Wooden surfaces must be polished manually or with a polisher. Remove abrasive dust from the surface. Remove resin deposits from the surface of the wood mechanically (with a spatula or a scratcher). If wood is infected by blue stain, mould, or fungi, remove infected areas:



first mechanically, then treat the wood with antiseptic for wooden surfaces TM Farbex. Correct created uneven areas with Putty TM Farbex. Polish the corrected surface and dust it off. The humidity of the wood must be less than 20%.

Hard, previously coated surfaces must be polished and dusted off. It is necessary to achieve the best adhesion of the paint product.

Before you use subordinate products (primer, adhesive, antiseptic, etc.), we recommend checking compatibility on a small area of the surface, following all recommendations and hints made by specialists.

2 Priming

The surfaces need no obligatory priming before coating, but we recommend it for maximum exploitation resistance, viz.:

metal surfaces with the quick-drying anticorrosion primer TM Maxima;

wooden surfaces with alkyd-based wood-protective primer TM Maxima.

3 Application

Before you use the enamel, stir it thoroughly to make it homogeneous. Dilute the enamel with Universal diluent TM Maxima until workable viscosity. Abnormal dilution can spoil the product's resistance to the creation of runs and slow down the hardening.

Apply the enamel with a brush, a roller with a short nap, or a spraying gun – 1-2 coats. Apply a subsequent coat after 1 hour. We recommend using the goods of the same batch for the finishing coat to avoid differences in shades. In case you use the goods of different batches, it is necessary to mix them.

Carry out the application at a temperature of air and the surface from +10 °C to +25 °C and relative air humidity less than 80% (the temperature of the surface must be 3 degrees above the dew point). Provide appropriate ventilation during the application and drying period.

We recommend applying “from edge to edge (from corner to corner) or within the limits of decorative elements without breaks. When you apply the enamel on large areas and/or for a long period, stir the enamel from time to time. We do not recommend keeping containers with the product open.

Do not apply the enamel under direct sunlight, strong wind, and precipitations. The surface shall not be affected by precipitation for 24 hours.

Rust stop graphite enamel 3in1 can be applied with following methods:

Application method	Quantity of diluent	Jet size	Pressure
Pneumatic spraying	0 – 30 %	2 mm	0,3 Mpa (≈ 3 bar)
A brush / a roller	0 – 5 %	-	-

The tools must be recommended for solvent-based paint products.

When you apply with a roller, use the cuvette for homogeneous wetting of the tool. We do not recommend using foam rubber rollers.

When you use the spraying method of application, follow all instructions for exploitation.

To get a quality coating, you must obtain painting skills, especially if you use professional instruments.

Compatibility with other coatings:

Depending on the conditions of exploitation, the enamel can be used with different primers. The examples of compatibility are mentioned below. If you want to receive more precise recommendations, call the specialists of POLYSAN.

A previous coat can be alkyd-based or solvent-based paint product.

A subsequent coat – we do not recommend applying any paint products, except Rust Stop graphite enamel 3in1 to refresh a decorative appearance. If you apply alkyd-based products and acrylic-based products, the decorative “metallic” effect will be spoiled.

The compatibility of the products must be tested on a small area of the surface.

4 Tool cleaning

Clean tools with a thinner and then with warm water with detergents if necessary.

SAFETY

Keep away from fire! Store in tightly closed original containers at the temperature from -20 °C till + 40 °C. Keep out from moisture and direct sunlight distantly from food in the places out of reach of children. During application use personal safety gear (work clothes, rubber gloves, a respirator and safety glasses). Well-arranged ventilation shall be provided during application and 48 hours after works if it is indoors. If skin contact, wash thoroughly with water and soap. If eye contact, rinse with plenty of running water. Consult a doctor if necessary. VOC content: cat. A/i (SB): < 500 g/l. Actual VOC content ≤ 499 g/l. It doesn't contain lead and lead compounds. More detailed information you can read in the safety data sheet. The product has a sanitary-epidemical conclusion of the state expertise.

ENVIRONMENTAL PROTECTION

Do not empty into drains, ponds and in soil! Liquid rests shall be delivered to the waste drop-off point. Rests of dry products and empty containers shall be recycled as common construction waste, in accordance with the Law.



The authenticity of this information is based on laboratory tests and practical knowledge. The quality of the product completely corresponds to the demands of TU U 24.3-32318370-006:2007. As a manufacturer, the company isn't responsible for the damage caused by application, which is not in accordance with the directions. Applicability of the product for specific purposes shall be defined entirely by the consumer. Current information loses validity with the issue of a new edition.

