Rust stop hammer enamel for metal 3in1

Specification

Hammer enamel 3in1 TM Maxima, which functionally unites adhesion primer, anticorrosion protection and finishing enamel in it. It creates on the surface anti-corrosion film with **pearly hammer effect**, which protects the surface of the metal against moisture, air and corrosion effects. It requires no preliminary treatment with special products to remove the corrosion and undercoating. It creates the coat, which masks small defects of the surface. It is resistant to water and weather effects, UV-radiation, industrial oils, domestic detergents.It dries quickly, that is why it is possible to apply several coats of enamel during a day. The enamel has high adhesion to the base surface.

Sphere of application

It is intended for protection against corrosion and decorative coating of metal surfaces (clean, coated, of 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	80-125 g/m^2, depending on the way of application and type of surface.
Thinner	Universal thinner TM Maxima, up to 10 % of the total mass of the enamel if applying with a brush or a roller and up to 30% if applying with a spraying gun. ATTENTION! Do not use white spirite, solvent or others similar products.
Application	Apply with a roller with short hair or a spraying gun.
Drying period (23 °C, 50% RH)	4 hours. Drying period increases if the temperature is getting down and relative air humidity is getting higher.
Solids content (DSTU ISO 3251)	53,5±2 %
Density (DSTU ISO 2811-1)	0,98-1 g/cm^3
Gloss (DSTU ISO 2813)	≈ 80 GU (at 60°)
Non-volatile matter by volume (DSTU ISO 3233)	47,5±2 %
VOC content (ISO 11890)	460±10 g/l
Warranty period	36 months from the date of manufacturing.
Packaging	0,75 kg, 2,3 kg
Color	antique gold, anthracite, bordo, bronze, green, gold, carmen, silver, dark brown, black.
Gloss	glossy.

Composition

Modified alkyd resin, pearl pigments, thinner, corrosion inhibitor, additives.

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Application instruction

The condition for receiving a desired result is following directions for using the paint product and preparing 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 demand no obligatory priming, but for maximum exploitation resistance we recommend:

Metallic surfaces - quick-drying anticorrosion primer TM Maxima;

Wooden surfaces - wood-protective alkyd-based primer TM Maxima.

3 Application

Stir the enamel thoroughly before use to a homogeneous condition. Filter the enamel if necessary, dilute with a universal thinner TM Maxima until workable viscosity (abnormal dilution causes running formation and slowing down of hardening).

Apply the enamel with a brush, a roller with a short nap in 2-3 thin coats, if you use a paint spraying gun – in 3-4 coats. Apply each subsequent coat after 15 minutes.

When you apply the enamel with a spraying gun, you achieve a highly decorative coating.

To have homogeneous texture and color, we recommend disposing vertical surfaces horizontally, of course, if it is possible, before coating.

To avoid deviations in color, we recommend applying the finish coating with the enamel of the same batch. If you use the product of various batches, we recommend mixing them.

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

We recommend carrying out coating “from edge to edge” (from corner to corner) or within the measures of decorative elements without breaks. When you apply the enamel on large areas and/or for a long period, we do not recommend keeping the container with the paint open.

Do not apply the enamel under direct sunlight, strong wind, and precipitations. After application, the coating shall not be affected by precipitations for 24 hours.

Anticorrosion hammered enamel 3in1 can be applied in following ways:

The way of application	Quantity of diluent	Jet size	Pressure
Airless spraying	0 – 15 %	0.015" - 0.023"	15 MPa (≈ 150 bar)
Pneumatic spraying	0 – 15 %	1,5 – 2,0 mm	0,3 MPa (≈ 3 bar)
A brush / a roller	0 – 10 %	-	-

The tools must be recommended for solvent-based products.

When you work with a roller, we recommend using a cuvette for homogeneous wetting with the paint. Do not use rubber foam rollers.

When you use sprayers, follow the instructions for them.

For a quality coating, you have to obtain painting skills, especially when you use professional instruments.

The thickness of one coat with different consumption

Consumption	80 g/m^2	100 g/m^2	125 g/m^2
Thickness of dry film	38±2 mcm	48±2 mcm	60±2 mcm
Thickness of wet film	80 mcm	100 mcm	125 mcm
Application rate (acc. to mass and volume)	12,5 m^2/l	10 m^2/l	8 m^2/l
	12,5 m^2/kg	10 m^2/kg	8 m^2/kg

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Compatibility with other coatings

Depending on the conditions of exploitation, the enamel can be used with various primers. Examples of compatibility are mentioned below. Call the specialists of POLYSAN for more detailed recommendations.

Previous coating – solvent-based products.

Subsequent coating – we do not recommend applying any other paint products except RustStop hammered enamel 3in1 for the renovation of a decorative look. In case of applying solvent-based products and water-based products, the decorative “hammered” effect will be spoiled.

We recommend testing the compatibility of the products 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.

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