

TECHNICAL SHEET 20.07.02-GBR

DECORATIVE PROTECTION OF WOOD

JUBIN Decor universal matt

Enamel paint for wood and metal

1. Description, Application

JUBIN Decor universal matt is an enamel paint for wood and metal based on water dispersion of acrylic binders. It is intended for decorative protection of non-demanding and simple objects made of wood, steel, iron, copper, zinc and aluminium, e.g. wooden roof constructions, eaves and other sidings, fences, building and garden furniture, radiators and radiator pipes (temperatures of up to 60° C), machine housings, projecting roof constructions, etc. On wooden surfaces, the product is suitable for both interior and exterior. Steel, iron, copper, zinc and aluminium can only be painted inside construction facilities. Prior to painting these surfaces, anti-corrosive primer JUBIN Metal primer must be used. On wooden surfaces, JUBIN Decor primer should be used as a primer. JUBIN Decor universal matt doesn't become yellow, it dries quickly and it doesn't have an unpleasant smell. The tools are simply washed with water after use. Details for individual specific cases are stated in the table below.

JUBIN Decor universal matt received the Declaration of conformity which states that in terms of transfer of the substance into food, the product is compliant with the following standards or other normative documents:

- Art. 3 of Regulation No. 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directive 80/590/EEC and 89/109/EEC;
- Art. 10, 11 (1), 12 of Commission Regulation (EU) No 10/2011 of 14 January 2011 (amended with: 321/2011, 1282/2011, 1183/2012, 202/2014, 174/2015), on plastic materials and articles intended to come into contact with food.
- JUBIN Decor universal matt is available in a wide range of colour shades. JUBIN Decor universal matt can also be used for painting children's toys and playground equipment, which is attested with the certificate by the Institute of Public Health (or compliance with the standards EN 71-3 and EN 71-9).

Systems for the protection of wood **outside** or **inside** construction facilities:

Description		Primer	Decorative coat
- First painting or - Restoration painting (old coatings are cracked and do not adhere to surface – prior to painting, we remove them entirely)	Wooden constructions and other elements made of wood in the exterior	1 x JUBIN Wood impregnation + 1 x or 2 x JUBIN Decor primer	2 x JUBIN Decor universal matt
	Wooden constructions and other elements made of wood inside construction facilities	1 x or 2 x JUBIN Decor primer	2 x JUBIN Decor universal matt
- Restoration painting (old coatings are cracked and do not adhere to surface – prior to painting, we remove them partially)	Wooden constructions and other elements made of wood in the exterior	1 x or 2 x JUBIN Decor primer	2 x JUBIN Decor Universal matt
	Wooden constructions and other elements made of wood inside construction facilities	1 x or 2 x JUBIN Decor primer	2 x JUBIN Decor

	wood inside construction facilities	primer	Universal matt
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Systems for the protection of metal **inside** construction facilities:

- First painting or - Restoration painting (old coatings are cracked and do not adhere to surface – prior to painting, we remove them partially or entirely)	Element made of steel, iron, copper, zinc or aluminium inside construction facilities	2 x JUBIN Metal primer	2 x JUBIN Decor Universal matt
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JUBIN Decor universal matt is available in a wide range of colour shades. JUBIN Decor universal matt can also be used for painting children's toys and playground equipment, which is attested with the certificate by the Institute of Public Health (or compliance with the standards EN 71-3 and EN 71-9).

2. Packaging, colour shades

Plastic pots holding 0.65 and 2.25 l

- white (colour shade 1001)
- colour shades from the following colour charts: Favourite feelings, Paints and renders and RAL (at JUMIX tinting stations at points of sale!)

Plastic pots holding 0.65 l

- yellow (colour shade 2), ochre (colour shade 3), red (colour shade 4), blue (colour shade 5), green (colour shade 6), grey (colour shade 7), dark brown (colour shade 8) and black (colour shade 9) according to the colour chart JUBIN Decor universal matt

Paints of different colour shades can be mixed in optional ratios!

3. Technical Data

Density (kg/dm ³)	~1.26	
Content of vaporous organic substances (VOC) (g/l)	<32 The EU VOS requirement – category A/d (as of 1 January 2010): <130	
Drying time T = +20 °C, rel. air humidity = 65 % (hours)	Touch dry	~2
Characteristics of dry paint film	Suitable for further treatment Gloss (reflection 60 °) EN 927 1	4 - 6 Semi-matt

Main ingredients: acrylate binder, calcite and magnesium-silicate fillers, titanium dioxide, associative thickening agent, water. The coating reaches its final physical and chemical characteristics after a month.

4. Surface Preparation

Surfaces made of wood:

Surface should be solid, dry and clean, without any badly-adhered particles, dust, fat linings or other filth. Wood humidity should not exceed 12 % (deciduous trees) or 15 % (coniferous trees). Clean resinous surfaces of wood with nitro diluter and let them dry well. Repair any defects (cracks, dents, hollows and similar) with JUBIN Akrilin wood paste.

Before the first painting and during restoration painting (if old coats have been partially or completely removed), apply JUBIN Decor primer onto the surface first. Coat elements made of hard wood and very knotty wood twice, and protect elements exposed to precipitation and other weather conditions first with biocide agent JUBIN Wood impregnation, which inhibits or prevents the development of mould and blue-stain fungus.

Sand the painted surfaces after the first application gently using fine sand paper to remove lifted wood flax. If only one coat of JUBIN Decor primer is applied, skip the described polishing. In this case, sand the first application of JUBIN Decor universal matt if necessary.

Surfaces made of steel, iron, copper, aluminium or galvanized metal:

Prior to application of JUBIN Decor universal matt, they must be protected with anti-corrosive primer JUBIN Metal primer (the preparation of surfaces in that case is described in the technical sheet JUBIN Metal primer).

5. Paint Preparation

Prior to application, only stir the paint well and dilute it with water up to 5 % if necessary. If the paint is applied by spraying (in conditions of quick drying, but also in other cases), it can be diluted even more, but not more than 10 %. ATTENTION! Paint coverage decreases with diluting!

Equalize paint of different production batches or different production dates needed for painting finishing surfaces in a container of appropriate size. In case of large surfaces, where, in such a manner, it is impossible to ensure sufficient quantity of paint even for a one-layer application, mix paint from at least three containers in an equalisation container first. When a third of the so prepared paint is used, pour new paint into the container and stir it well together with the rest of the paint already in the container, etc. Equalisation of paint in the colour shades 2, 3, 4, 5, 6, 7, 8, 9 and 1001 of the same production batch or same production date, which has not been diluted, is not necessary.

6. Paint Application

Surfaces made of wood:

Paint is applied in two coats, onto a dry and clean surface, by using a brush, adequate painting roller or by spraying. Due to quick drying, we recommend the application in stripes without interruptions; potential drops should be spread, so that they do not dry.

Surfaces made of steel, iron, copper, aluminium or galvanized metal (only inside the facilities):

Paint is applied in two coats, onto a dry and clean surface, by using a brush or by spraying. In case of spraying, at least 80 – 100 microns of wet film must be applied in one coat. During application, check the thickness several times with a comb for measuring the thickness of wet film. Due to quick drying, we recommend the application in stripes without interruptions; potential drops should be spread, so that they do not dry.

Any "repairs" of the paint during application (adding tinting agents, diluting, and similar) are not allowed. The quantity of paint required to paint specific surface can be calculated or estimated from the surface and data on average consumption. In specific cases, the consumption can be determined by measuring at large enough test surface.

Painting is possible only in suitable weather or microclimate conditions: the air temperature should not be lower than +5°C and not higher than +25°C, (optimum working temperature is +10 °C to +25 °C) and the relative air humidity should be below 80 %. In case of outdoor work, protect surfaces during painting and hardening of paint film against strong sun and winds. However, do not conduct any work in rain, fog or strong wind (≥ 30 km/h) despite such protection!

Approximate or average consumption for a one-coat application:

JUBIN Decor universal matt	70 – 90 ml/m ² , depending on roughness of the surface
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Thoroughly clean the tools with water immediately after use. Empty the roller by using a trowel for rubbing off the paint. Then thoroughly clean the tools with water immediately. Keep unused and undiluted paint in a well-sealed package for potential repairs or later use.

7. Safety and Health at Work

Further instructions regarding handling the product, use of personal protection equipment, waste management, tool cleaning, first aid measures, warning signs, signal words, components determining hazard, hazard statements and safety statements are listed in the product's safety sheet which you can find on Jub's web page or you can require it from the manufacturer or seller. When applying the product, the instructions and regulations regarding safety for construction, façade and painting works should also be observed.

8. Maintenance and Restoration of Painted Surfaces

Painted surfaces do not require any special maintenance. Dust and other non-adhering filth can be simply swept or hoovered, while adhered dust and other filth can be removed with a soft cloth or sponge soaked in a solution of conventional universal household preparations.

However, on surfaces where filth and stains cannot be removed, renovation painting is conducted, which consists of a new two-coat application of paint as described in the chapter "Paint Application". Primer is usually not necessary for restoration painting.



9. Storage, Transportation Conditions and Durability

Storage and transportation at temperature +5°C to +25°C, protected from the direct sunlight, out of reach of children, MUST NOT FREEZE!

Durability when stored in originally sealed and undamaged packaging: at least 36 months.

11. Quality Control

The product's quality characteristics are determined with the internal manufacturing specifications as well as with the Slovenian, European and other standards. The achievement of declared or set quality level is ensured by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years. It comprises daily quality checks in our own labs, and occasionally also at the Construction Institute in Ljubljana, and at other independent institutions at home and abroad. The control of health integrity of the product as a dry coat has been carried out by the Institute for Protection of Environmental at the Institute for Health Protection in Maribor – the product was assessed as adequate and not harmful for health as well as suitable for decorative protection of children's toys and playground equipment. During the manufacturing process, we strictly comply with the Slovenian and European standards for protection of the environment and for ensuring security and health at work, which is confirmed by the ISO 14001 and OHSAS 18001 certificates.

12. Other Information

Technical instructions in this brochure are given based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work.

Colour shades may differ from the print in the colour chart since they depend on the type and absorption of wood, coarseness of the surface and number of applications. The total colour difference $\Delta E2000$, which is determined in accordance with the ISO 7724/1-3 and with the mathematical model CIE DE2000, should not exceed 1.5 for colour shades from JUB's colour charts FF and JUBIN Decor universal matt, or 2.5 for colour shades from the colour charts NCS and RAL. For control purposes, the following is relevant: correctly dried application of paint onto a standard test cardboard is compared to a standard of the concerned colour shade, which is stored in the TRC JUB d.o.o. Paint manufactured by other colour charts is the best possible approximation for the JUB's primers and tinting agents. Therefore, in such cases the total colour difference from the desired shade may be even higher than the value guaranteed above. The difference in the colour shade which is a result of inadequate working conditions, of paint preparation which does not follow the instructions from this technical sheet, of application onto inadequately prepared surface and onto a wet or not dry enough surface, cannot be subject of complaint.

This technical sheet supplements and replaces all preceding editions. We reserve the right to change and supplement data in the future.

Denomination and date of publishing: TRC-117/19 čad, 10 December 2019

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