

## TECHNICAL SHEET 14.04.05-EN



# JUBIN Metal primer (WB)

## Water-based anti-corrosive metal primer

### 1. Description, Application

JUBIN Metal primer (WB) is an anti-corrosive primer based on water dispersion of styrene-acrylate binders for protection of non-demanding and simple constructions made of steel, iron, copper, zinc and aluminium, e.g. building furniture, fences, gutters, radiators and radiator pipes (temperatures of up to 60°C), machine housings, constructions of projecting roofs, etc. The product is suitable for surfaces both in exterior and in interior. The product dries quickly, and it doesn't have unpleasant smell. It improves the adherence of final coatings to the aforementioned metals. After use, the tools are simply washed with water. The product is not suitable for protection of roof surfaces and surfaces laden with foot traffic. We recommend that horizontal surfaces are carried out with at least minimum inclination, (2 %), in order to enable flowing off of rainwater. In areas where rainwater will stagnate, the coating will have to be restored more often. Prior to applying the product, sharp edges must be grinded (minimum rounding radius is 1.0 mm). Welds on metals must be entirely filled in order to prevent dripping of water which occurs due to condensation in the interior of pipes and profiles. JUBIN Metal primer (WB) is not suitable for use as an independent coating. It must be protected with one of decorative coatings. We do not recommend the use of JUBIN Metal primer (WB) in aggressive industrial environments and in littoral zone with high salinity.

Description		Primer	Decorative coat
First painting or Paint renovation (old coatings are cracked and do not adhere to the surface – prior to painting, remove them partially or completely)	Elements made of steel or iron in the exterior	2 x JUBIN Metal primer (WB)	2 x JUBIN Metal
	Elements made of copper, zinc or aluminium in the exterior or interior of construction facilities	1 x JUBIN Metal primer (WB)	2 x JUBIN Metal
	Elements made of steel or iron inside construction facilities	/	3 x JUBIN Metal
	Elements made of steel, iron, copper, zinc, or aluminum inside construction facilities	2 x JUBIN Metal primer (WB)	2 x JUBIN Decor universal

## 2. Colour Shades

- colour shade grey

## 3. Technical data

Packaging	0.65 l	
Density	~1.334 kg/dm <sup>3</sup>	
Content of vaporous substance (VOC)	11 g/l	
The EU VOC requirement - category	A/d<130	
Water dilution mass	0 %	
Water dilution for spraying	~10 %	
Drying time	Touch dry	~2 h
T = +20 °C, relative air humidity = 65 %	Suitable for further treatment	~6 h
Consumption	~80 - 100 ml/m <sup>2</sup> (for a one-coat application)	
Recommended number of layers	1-2	

## 4. Installation Conditions

The air temperature should not be lower than +5°C and not higher than +25°C (the optimum air temperature is +10 °C to +25 °C), and the air humidity should not exceed 80 %. The temperature of the surface should be higher than the temperature of dew point, but it should by no means be lower than +5 °C. In case of outdoor work, protect surfaces during painting and hardening of the 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!

See the information table with dew point temperatures on the last page of the technical sheet!

## 5. Surface Preparation

Surfaces made of iron or steel:

Corrosion products are removed mechanically (manually or by a machine) with a wire brush or sandpaper with grit sizes P-080, P-100 or P-120. Prior to degreasing, grinded rust should be removed (mechanically by using compressed air aggregate or manually with a brush or broom). Deep hollows created due to long-term rusting need special attention. Grease and other filth can be removed with alcohol, acetone, nitro solvent or with other agent specialized for degreasing. In case of heavily greasy surfaces, repeat the degreasing procedure multiple times. After degreasing, clean all surfaces with dry cotton cloth (after cleaning, there should be no filth left on a cloth). Prior to applying anti-corrosive primer, the surfaces should be dry and clean, without dust and other non-adhered or badly-adhered particles.

Specifics:

If rust is removed with chemical acid-based agents (phosphorus acid), the surface must be thoroughly washed with water and dried; only then the anti-corrosive primer is applied.

Surface made of tinned sheet:

The surface should be grinded with a synthetic fibre grinding cloth. Grease and other filth can be removed with alcohol, acetone, nitro solvent or with other agent specialized for degreasing. In case of heavily greasy surfaces, repeat the degreasing procedure multiple times. Prior to applying anti-corrosive primer, the surfaces should be dry and clean, without dust and other non-adhered or badly-adhered particles.

Surface made of hot tinned sheet:

The surface should be grinded with P-80 grinding paper or it should be made coarse by light sandblasting. Grease and other filth can be removed with alcohol, acetone, nitro solvent or with other agent specialized for degreasing. In case of heavily greasy surfaces, repeat the degreasing procedure multiple times. Prior to applying anti-corrosive

primer, the surfaces should be dry and clean, without dust and other non-adhered or badly-adhered particles.

Surface made of copper or aluminium:

Corrosion products are removed mechanically (manually or by a machine) with a synthetic fibre grinding cloth. Grease and other filth can be removed with alcohol, acetone, nitro solvent or with other agent specialized for degreasing. In case of heavily greasy surfaces, repeat the degreasing procedure multiple times. Prior to applying anti-corrosive primer, the surfaces should be dry and clean, without dust and other non-adhered or badly-adhered particles.

Restoration of old coatings:

Old, non-adhering paint coatings should be removed; if they adhere well to the surface, they should only be rubbed off with a solid wire brush or finely grinded (grinding paper No. 180 or 220).

## 6. Preparation of coating

Prior to application, only stir JUBIN Metal primer (WB) anti-corrosion coat well. When applying the coat with a brush, diluting with water is not allowed. If the paint is applied by spraying, it can be diluted with water up to 10 %. The following can be used for spraying: low pressure spray guns of different types (with internal mixing of air), as well as "airless" aggregates of different configurations. As regards to the choice of diameter of spraying nozzles and service pressure, follow producer's instructions. ATTENTION! Paint coverage decreases rapidly with diluting!

## 7. Application of coating

Apply JUBIN Metal primer (WB) in one or two coats onto a dry and clean surface with a brush or spray it. When spraying it, at least 80 – 100 microns of wet film must be applied in one coat. During application, check the thickness several times with a wet film comb. Due to quick drying, application in stripes without interruptions is recommended. Smear any drops immediately so that they do not dry.

Thoroughly clean the tools with water immediately after use.

## 8. Storage, Transportation Conditions and Durability

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

Shelf life when stored in an originally sealed and undamaged packaging: at least 18 months.

## 9. Other Information

Technical instructions contained in this brochure are provided on the basis of JUB's experience and are given as a guideline to achieve the optimum results. JUB cannot accept any responsibility for damage caused by incorrect selection of a product, incorrect use or unprofessional work.

Safety measures: Follow the instructions on the safety data sheet of the product.

A colour shade may differ from the print in the colour chart or from the approved sample. However, the total colour difference  $\Delta E_{2000}$  – it is determined in accordance with the ISO 772471-3 and with the mathematical model CIE DE2000 – does not exceed 1.5 in the case of shades from the JUB FAVOURITE FEELINGS colour chart or 2.5 in the case of shades from the NCS and RAL colour charts. In order to check the colour shade, a dry application of the paint on a standard test cardboard is compared to a standard of the concerned shade, which is stored in the TRC JUB d.o.o. Paint made on the basis of the JUBIN METAL colour chart and other colour charts is the best possible approximation for JUB's product bases and tinting agents. Therefore, in such cases, the total colour difference from the desired shade may be even higher than the value guaranteed above. A difference in paint, which is a result of inadequate working conditions, of paint preparation, which does not follow instructions from this technical sheet, of non-compliance with equalisation rules, and of application of the paint onto inadequately prepared surface cannot be subject of complaint.

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

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## INFORMATIVE TABLE INCLUDING DEW POINT TEMPERATURES

Dew point temperature at a certain relative air humidity of the room											
Air temperature	Relative air humidity	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
30 °C	Substrate temperature in °C or dew point	-5,0	4,6	10,5	14,9	18,4	21,4	24,0	26,2	28,2	30,0
29 °C		-5,7	3,8	9,6	14,0	17,5	20,4	23,0	25,2	27,2	29,0
28 °C		-6,5	3,0	8,7	13,1	16,7	19,5	22,0	24,2	26,2	28,0
27 °C		-7,3	2,1	7,9	12,2	15,8	18,5	21,0	23,2	25,2	27,0
26 °C		-8,0	1,3	7,1	11,3	14,8	17,7	20,2	22,3	24,2	26,0
25 °C		-8,8	0,5	6,3	10,4	13,8	16,7	19,2	21,3	23,2	25,0
24 °C		-9,6	-0,3	5,4	9,5	12,9	15,7	18,2	20,3	22,2	24,0
23 °C		-10,3	-1,2	4,5	8,6	12,1	14,7	17,2	19,3	21,2	23,0
22 °C		-11,0	-2,0	3,6	7,7	11,1	13,9	16,3	18,3	20,3	22,0
21 °C		-11,7	-2,8	2,7	6,8	10,2	12,9	15,3	17,4	19,3	21,0
20 °C		-12,5	-3,6	1,9	6,0	9,3	12,0	14,3	16,4	18,3	20,0
19 °C		-13,2	-4,5	1,0	5,1	8,3	11,0	13,4	15,4	17,3	19,0
18 °C		-14,1	-5,2	0,2	4,2	7,4	10,1	12,4	14,5	16,3	18,0
17 °C		-14,9	-6,0	-0,7	3,3	6,5	9,1	11,5	13,5	15,3	17,0
16 °C		-15,7	-6,9	-1,5	2,4	5,5	8,1	10,5	12,6	14,3	16,0
15 °C		-16,4	-7,8	-2,4	1,5	4,5	7,2	9,5	11,6	13,3	15,0
14 °C		-17,2	-8,6	-3,3	0,6	3,5	6,2	8,5	10,6	12,3	14,0
13 °C		-17,9	-9,4	-4,2	-0,3	2,6	5,3	7,5	9,7	11,4	13,0
12 °C		-18,7	-10,2	-5,0	-1,2	1,7	4,4	6,6	8,7	10,4	12,0
11 °C		-19,5	-11,1	-5,9	-2,0	0,9	3,5	5,7	7,8	9,4	11,0
10 °C		-20,2	-12,0	-6,7	-2,9	0,1	2,5	4,8	6,8	8,4	10,0
9 °C		-21,0	-12,8	-7,6	-3,8	-0,8	1,6	3,8	5,8	7,4	9,0
8 °C		-21,6	-13,5	-8,5	-4,8	-1,8	0,6	2,8	4,8	6,5	8,0
7 °C		-22,3	-14,2	-9,4	-5,7	-2,8	-0,4	1,8	3,8	5,5	7,0
6 °C		-23,1	-15,0	-10,3	-6,6	-3,7	-1,3	0,8	2,8	4,5	6,0
5 °C		-24,0	-15,9	-11,2	-7,6	-4,6	-2,2	-0,1	1,8	3,5	5,0
4 °C		-24,8	-16,8	-12,0	-8,5	-5,5	-3,1	-1,0	0,8	2,5	4,0
3 °C		-25,6	-17,7	-12,9	-9,4	-6,4	-4,1	-1,9	-0,1	1,5	3,0
2 °C	-26,4	-18,5	-13,7	-10,2	-7,3	-5,0	-2,8	-1,0	0,6	2,0	
1 °C	-27,2	-19,3	-14,5	-11,1	-8,2	-5,8	-3,8	-1,9	-0,4	1,0	
0 °C	-27,9	-20,2	-15,4	-12,0	-9,2	-6,8	-4,8	-2,8	-1,4	0,0	

Example of how to use the table:

At air temperature of 20°C and relative air humidity of 60 %, the dew point temperature will be 12°C. Add + 3°C to this temperature and you will get surface temperature, which should exceed 15°C.