Industrial UV Oil

UV-cured wood protection and colouring in 1 layer

Industrial UV Oil is a UV-curing version of our renowned Oil Plus 2C, designed to colour and protect wood in a single layer. This high-performance oil is ideal for high-traffic areas and can be applied to all interior wood surfaces, including almost all wood types and species.

Thanks to its B-component, the oil instantly cures when exposed to UV lamps, ensuring an efficient and fast production process.

PRODUCT INFORMATION

› Specific characteristics

- **Optimised for industrial application** - Specially developed for seamless integration into industrial oil lines, allowing for rapid production and packaging.
- **Enhanced with Topcoat** - Provides a beautiful, matte oiled look.
- **Exceptional resistance** - Offers outstanding scrub and stain resistance for long-lasting protection.
- **Sustainable & safe** - Contains a high percentage of bio-based ingredients, making it an ecological choice. Contains no CMR substances.
- Application in 1 layer
- 40 standard colours, custom-made colours possible
- Consistent results, no over-curing possible

› Technical characteristics

- Low consumption:
  - Industrial UV Oil: 12 to 18 gr/m²
  - Topcoat: 4-6 gr/m²
- ± 30% bio-based
- VOC content: 0 g/L
- CMR- & TPO-free product

› Colours on Oak

Colours only serve as an example and we recommend doing a test on identical sanded wood.

› Packaging

Set 1.1 kg (= 1 kg component A + 100 gr component B)

Set 5.5 kg (= 5 kg component A + 500 gr component B)

Packshot available soon

Set 22 kg (= 20 kg component A + 4 x 0.5 kg component B)

› Storage

Can be stored up to 36 months in dry conditions and in its original packaging. Once mixed with the B-component, shelf life of the mixture is 6 months (keep in mind that the mixture should be stored in a closed can and should not be exposed to light).

APPLICATION INFORMATION

› **Instructions**

PREPARATION

- Before application check the humidity of the wood (8 till 10%) and also width and thickness differences.
- Sand the wood (standard = grit 120, max. = grit 150) or alter the structure in order to obtain the desired result.
- Dust the wood with 2 nylon or sisal brushes (the first is turning in the direction of the transport belt and the second against). In this case you need a wood dust extraction.

APPLICATION INFORMATION

Deep matte look

Step 1. Stir the Industrial UV Oil component A until a homogenous mix is obtained. Carefully add 10% of B-component and mix well.

The amount of B-component can still be personally adjusted according to colour, grammage or lamp strength.

Step 2. Apply one coat of the mixture by rollercoater (25 shore EPDM). The speed of the application roller must be the same speed as the transport belt. Absorption strongly depends on the preparation and the wood type, aim to apply approximately 12 to 18 gr/m².

Step 3. Spread the oil by passing the boards through optional orbital turning pads (beige/white or red/white 16"/ 2 cm and speed between 60 and 100 rpm) or pad brushes for deeply structured wood and obligatory brushes (mix tampico/nylon and speed between 180 and 300 rpm).

Step 4. Pass the boards through the UV unit (1 x galium + 1 x mercury or 2 x mercury lamps). Power: min. 750 to max. 1300 mj/cm² - temperature should not exceed 90°C.

Step 5. Stir the A-component Industrial UV Topcoat until a homogenous mix is obtained. Carefully add 10% of B-component and mix well.

- Never mix the Topcoat with a coloured Industrial UV Oil!
- The amount of B-component can still be personally adjusted according to colour, grammage or lamp strength.

Step 6. Apply the Topcoat mix by rollercoater (40 shore EPDM). Aim to apply approximately 4-6 gr/m². Pads and brushes are not used in order to obtain the most matte look.

Step 7. Cure the boards by passing through the UV unit (2 mercury lamps, power 750 – 1300 mj/cm², temperature should not exceed 60°C).

Satin look

Step 1. Stir the Industrial UV Oil component A until a homogenous mix is obtained. Carefully add 10% of B-component and mix well.

The amount of B-component can still be personally adjusted according to colour, grammage or lamp strength.

Step 2. Apply one coat of the mixture by rollercoater (25 shore EPDM). The speed of the application roller must be the same speed as the transport belt. Absorption strongly depends on the preparation and the wood type, aim to apply approximately 12 to 18 gr/m².

Step 3. Spread the oil by passing the boards through optional orbital turning pads (beige/white or red/white 16"/ 2 cm and speed between 60 and 100 rpm) or pad brushes for deeply structured wood and obligatory brushes (mix tampico/nylon and speed between 180 and 300 rpm).

Step 4. Pass the boards through the UV unit (1 x galium + 1 x mercury or 2 x mercury lamps). Power: min. 750 to max. 1300 mj/cm² - temperature should not exceed 90°C.

Step 5. Boards can either be packed now or be optionally coated with a second layer of Industrial UV Oil for an extra sleek satin look (see next step for further instructions).

Step 6. Use a sanding machine or denibbing brush to smoothen the surface (grit 240/320).

Step 7. Stir the Industrial UV Oil component A "Pure" until a homogenous mix is obtained. Carefully add 10% of B-component and mix well.

Step 8. Apply the mix by rollercoater (40 shore EPDM). Aim to apply approximately 4-6 gr/m².

Step 9. Spread the oil by passing the boards through optional orbital turning pads (beige/white or red/white 16"/ 2 cm and speed between 60 and 100 rpm) or pad brushes for deeply structured wood and obligatory brushes (mix tampico/nylon and speed between 180 and 300 rpm).

Step 10. Pass the boards through the UV unit (1 x galium + 1 x mercury or 2 x mercury lamps). Power: min. 750 to max. 1300 mj/cm² - temperature should not exceed 90°C.

› Maintenance Instructions

Cleaning

- Rollers: acetone
- Brushes: acetone or Butyl acetate

Cleaning & maintenance

The UV Oil is compatible with our standard cleaning and maintenance range.

- Cleaning: All Natural Wood Cleaner (Spray) or Universal Soap/Surface Care, stain removers
- Maintenance: Universal Maintenance Oil (2 Mix), Refresh Eco or Oil Plus 2C

› Remarks

- The mentioned power values of the lamps are indicative and based on transparent colours. Dark or opaque colours might require a different set-up (e.g. more power or adding more B-component, max. 15 %).
- Considering the wide variety of UV dryers, the curing process needs to be determined by experience.
- Factors that may have a considerable impact on the end result: the wavelength of the lamps (gallium or mercury), reflector set-up and quality, generated temperature, power dispersion, ... Also the method of preparation of the wood and the possible pre-colouring will affect the curing process.
- We advise wearing protective glasses and gloves to protect your eyes and skin.

REMARK

Given the specialized character of this system, each project can be supervised individually. Contact our services for advice.

Check the packaging and the safety data sheet for more details.

For our complete assortment of products for the protection and colouring of interior and exterior wood, please visit **www.rubiomonocoat.com**

Date of TDS: 02/04/2025. Check the safety information before using the product.

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