

FR Oil System (flooring)

One of a kind fire-retardant oil system class Bfl-s1

Fire-retardant system - European classification for flooring in accordance with the standard EN 13501-1: EN ISO 11925-2 and EN ISO 9239-1

FR Oil System for parquet flooring is a fire-retardant system that combines a pre-treatment with the fire-retardant FR Base and a finish with FR Oil 2C – which is the fire-retardant modified version of Oil Plus 2C. The system is not film-forming, does not contain any salts and has a limiting effect on smoke development. Thanks to these unique characteristics, FR Oil System is the first flame-retardant oil system in the world that can present a Bfl-s1 certification on oak (5 mm top layer). FR Oil System also obtained a Cfl-s1 certificate with a 2.5 mm oak top layer.



PRODUCT INFORMATION

› Specific characteristics

- No build-up of layers, no saturation
- No salts, which increases the fire-retardant effect
- Limits smoke development in case of fire
- Doesn't contain solvents or water, 0% VOC
- Available in all standard interior Rubio Monocoat colours
- Manual and industrial application
- Optimal performance: low consumption
- Certificate Bfl-s1 tested according to the standard EN 13501-1: EN ISO 11925-2 and EN ISO 9239-1

› Technical characteristics

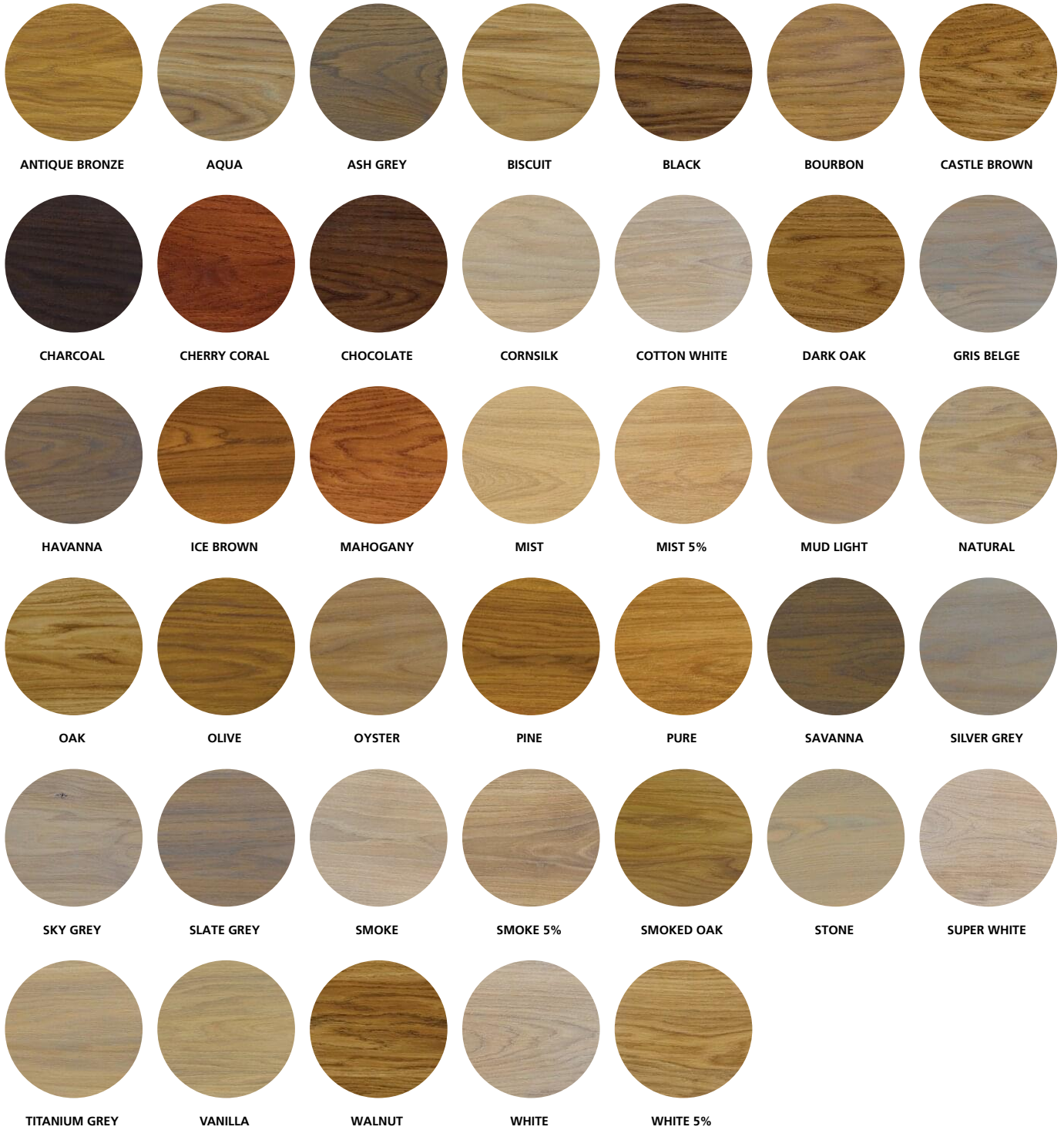
FR Oil 2C (A)

- Physical state at 20 °C: liquid
- Odour: oily
- VOC content: 0 g/L

Accelerator (B)

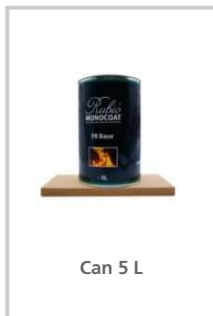
- Physical state at 20 °C: liquid
- Colour: clear
- Odour: none
- Flash point: > 160 °C (closed cup)
- VOC content: 0 g/L

> Colours on Oak



The colours shown are for reference only and are not binding.

› Packaging



› Storage

FR Base can be stored in a dry place for up to 12 months. FR Oil 2C can be stored in a dry place for up to 36 months.

APPLICATION INFORMATION

> Instructions

Manual application

STEP 1. Sand the surface scratch-free. Finish with screening net 100.

STEP 2. Vacuum thoroughly and eliminate remains of dust with Cleaner. Wait until the surface is completely dry (check the technical datasheet of Cleaner before use).

STEP 3. Apply FR Base by spraying the product with a pressure pump or back sprayer. Work in zones and level or smooth out with the Microfiber Pad. Avoid puddle formation (this results in shiny spots).

STEP 4. Allow the surface to dry. The drying time is approximately 12 hours at room temperature (depending on ventilation and humidity).

STEP 5. Break the raised wood fibres with a floor polisher equipped with a red Rubio Monocoat Pad and vacuum afterwards.

STEP 6. Take the FR Oil 2C and stir the A component until a homogenous mixture is obtained. Carefully add the B component with a ratio of appr. 3 units A to 1 unit B and mix carefully (1 to 2 minutes).

STEP 7. Work in zones of 5-10 m². Start each zone by treating the borders with a beige or red Rubio Monocoat Scrubby pad. Then apply a small quantity of FR Oil 2C every other 0.5 metres using a brush. Spread out in the direction of the wood using a polishing machine with a beige or red 16 inch Rubio Monocoat pad.

**Spatula method: spread out FR Oil 2C with a stainless spatula in zones which can be finished in maximum 30 minutes (including steps 7 and 8).*

STEP 8. Thoroughly remove all excess oil with a cloth or a polishing machine with a white 16 inch Rubio Monocoat pad.

STEP 9. After having finished all the zones, pass again with a new white Rubio Monocoat pad. Now the surface should feel non-sticky.

STEP 10. You can walk on the floor after about 24 hours (covering the floor should only be done after 5-7 days).

Industrial application

STEP 1. Sand the surface. Finish with screening net 100 and eliminate dust.

STEP 2. Apply FR Base with a rubber roller coater or spray.

STEP 3. Allow the planks to dry in the ventilation unit.

STEP 4. Break the raised wood fibres by brushing or denibbing.

STEP 5. Take the FR Oil 2C and stir the A component until a homogenous mixture is obtained. Carefully add the B component with a ratio of appr. 3 units A to 1 unit B and mix carefully (1 to 2 minutes).

STEP 6. Apply the correct amount of FR Oil 2C with a roller coater.

STEP 7. Allow to dry on storage racks (packaging should only be done after 24 hours at the earliest, full curing takes place 5-7 days after installation).

› Tips & Tricks

- The product may NOT be diluted, unless indicated in the instructions.
- Stir the product well before application.
- When using several containers at one site, it is required to mix them for an even result.
- Please note that the colours within the FR Oil System range are not 100% identical to the colours of the regular Oil Plus 2C range. When making a colour sample, it is therefore best to use FR Base and FR Oil 2C to obtain a correct colour indication.
- After application the surface may appear slightly glossy. This disappears after 2-3 times cleaning with Universal Soap, Surface Care, All Natural Wood Cleaner or All Natural Wood Cleaner Spray.
- Our oils are developed with environmentally friendly ingredients. However, some people can be allergic to certain elements. Therefore, we advise wearing gloves to protect your skin while applying the A+B component.

INFORMATIONAL

IMPORTANT

Given the specialized character of this system, each project is supervised individually. Contact our services for advice. Please also consult the technical data sheet of FR Base and FR Oil 2C before application.

› Consumption

FR Base: conform the norm: $35 \text{ g/m}^2 \pm 5$ (= ca. 25 m² / L)

FR Oil 2C: conform the norm: $16 \text{ g/m}^2 \pm 2$ (= ca. 50 m² / L)

** These usages are merely indicative. It is always recommended to make a sample in order to calculate the exact usage.*

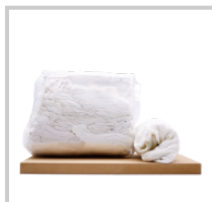
> Tools



Rubio Monocoat
Brush standard 100



Rubio Monocoat
White Pad 16 inch



White Wiping Rag -
set 1 kg



White Wiping Rag -
set 10 kg

> Certificates



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

LIABILITY: It is the user's responsibility to establish, through his own tests, whether the product is suitable for the chosen application. In no case can Muylle Facon NV be held liable for any consequential damage. The information above may be subject to changes, which will be published in the updated versions of the technical data sheet. We cannot be held liable for poor results due to causes that are not related to the quality of the product. This technical information has been drawn up based on the currently available information and knowledge. The most recent technical data sheets can be requested or are available on the website. **Date of TDS: 06/09/2023. Check the safety information before using the product.**



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