



**PyroProtect<sup>®</sup>**

EUROCLASS B-s1,d0 - C-s1,d0

Solvent Free

**Fire retardant wood stains  
and clear coatings  
for interior or exterior use  
by  
Rotafix**



Rotafix are distributors of a unique series of waterborne fire retardant wood stain and clear coatings that can be easily applied by professionals and DIY users. These unique aqueous based formulations can be applied in situ without the requirement of specialist equipment.

The Rotafix interior and exterior woodstains and clear coatings have been developed specifically with active ingredients that protect your timber from pests, moisture, mould and most importantly fire.

The fire protection properties are provided by a composition of carbonic acid salts and carbamide specifically designed for woodstain products.

### Key FEATURES

- Excellent **biocidal** qualities (kills or neutralizes bacteria, fungi, pests etc)
- It renders wood, metals, fabric, cardboard, paper incombustible.
- Is harmless for humans and safe for environment (does not contain hazardous, carcinogenic or toxic compounds)
- #####Rotafix aqueous products and woodstains and clear coatings are easy to use and apply (no requirement for pressure treatment).
- Wooden surfaces that need both decorative appearance and fire protection can be processed with three coats of a **single product**.
- No requirement to use primers, varnishes or sealers. **Saving you money**
- Using Rotafix woodstains and clear coatings **saves time**, because many other stains and fire retardants the drying time between two coat applications would be at least a minimum of 24 hours.

Rotafix woodstains and clear coatings are available for internal and external use. Internal wood stain provides an excellent decorative finish and helps to prevent problems caused by moisture and insects. It also gives a superb, Euroclass B-s1,d0 and C-s1,d0 fire retardancy.



## How to Use Fire Retardant Wood Stains

Timber substrate must be clean, dry and free from dust, dirt and loose particles.

Ensure the following recommended conditions during the application and drying:

- PyroProtect® temperature between 10 and 25° C
- Air temperature +10 up to 50° C
- Relative humidity (RH) 40-65 %
- Wood moisture content (M/C) 12-18 %

**Application:** Shake container well before use. Once the Rotafix PyroProtect® container is opened and partially used, ensure that the containers are re-closed firmly. If the container had been subject to repeated openings, check the suitability of the material for the intended purpose by applying to a timber test piece and checking for fire retardancy.

**Rotafix Fire Retardant Wood Stains** are suited for both manual application with a brush, spray, immersion or swab application using a lint-free cloth. If required on an industrial scale the use of airless-spray equipment is recommended. (Contact our technical department for further information)

The surface must receive 3 coats at the recommended application rate with no less than 60 minute intervals between coats, depending on timber species, air temperature and humidity level. Allow PyroProtect to completely dry inbetween applications.

**Drying time:** Drying time is approximately 48 Hrs at +20° C and average humidity of 40 to 65%.

Actual drying time depends on the temperature, humidity, type of wood, surface layer thickness, and room ventilation.

If the Rotafix PyroProtect® treated boards are sawn or cut the exposed open wood surface must be retreated with PyroProtect® system.

PyroProtect® treated timbers subject to accidental mechanical damage or mechanical modification should be cleaned and recoated with the PyroProtect® system in order to ensure continuing product protection

**Cleaning of application equipment:** Water with mild detergent.



## TECHNICAL INFORMATION

**Emission classification:** The product does not contain free formaldehyde. Following drying there are zero formaldehyde emissions. In addition the product does not contain carcinogenic or other harmful substances.

**Active agent:** The fire protection properties are a composition of carbonic acid salts and carbamides. The solution has a Ph of 8 - 9.

**Fire performance class:**

EuroClass B-s1,d0 (consumption 300-350 g/m<sup>2</sup>) per coat.

EuroClass C-s1,d0 (consumption 160-200 g/m<sup>2</sup>) per coat.

Actual consumption depends on the method of application and surface conditions, as well as form, shape and absorption properties of the to be applied substrate.

Resistance to fire in normal conditions is circa 10 years internal and circa 5 years external.

Fire retardancy performance is achieved in approximately 5-7 days following application and drying.

**VOC:** None.

**Safety Measures:** Use protective clothing, goggles and gloves. Avoid eye and mucosa contact. If this has happened rinse with plenty of water for several minutes. Wash off from skin with water. Please read the MSDS sheet on this product.

The suitability of the material shall be inspected by the manufacturer with respect to his/her requirements regarding quality, colour, and texture, e.g. by a sample staining and/or sample varnishing. The above information is based on our testing and experience.

The information supplied in this document does not represent any warranty of any specific characteristics and thus does also not represent the contractually agreed nature of the product. Additionally, the information does not claim any completeness and it is given without any warranties.

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ref: pyro/dg/02