

EXTERIOR

Applying Possibilities

sikkens

WOOD COATINGS

OUR FIRE-RETARDANT SYSTEM

Fire-retardant primer RUBBOL® WP 112 FR and selection of topcoats



FIRE PROTECTION SYSTEM

AkzoNobel

A FIRE-RETARDANT SYSTEM FOR LASTING BEAUTY AND FIRE RESISTANCE

Excellent fire protection and production efficiency for wooden facades.

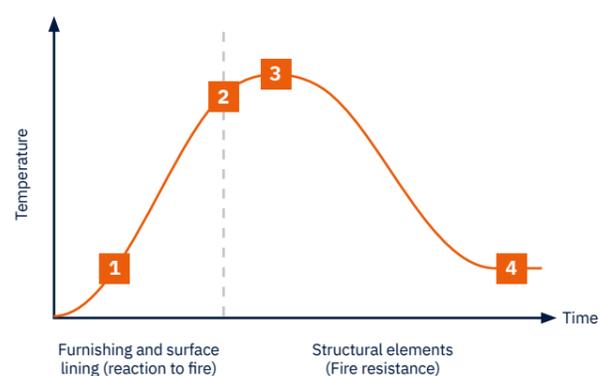
Wooden cladding is a modern and attractive finish for a variety of high-quality buildings, yet the high combustibility of wood can raise concerns. In public buildings and private homes, adequate fire protection is essential. Our fire-retardant system provides the solution. The off-white sprayable and brushable primer RUBBOL WP 112 FR, in combination with one of the RUBBOL WF 33XX topcoats, not only enables spruce facades to comply with EU fire resistance regulations, it also delivers beautiful, high-quality finishes.

Strict test parameters

Fire testing aims to determine three critical aspects of a material's behaviour: reaction to fire, ignitability and durability.

Reaction to fire refers to how a material or system contributes to fire development and spread, particularly in the early stages of a fire when swift and calm evacuation is crucial. This is critical for cladding and panels. Ignitability indicates the ability of a material or system to resist – and ideally prevent – catching fire. This is a key factor in construction. Durability refers to the capacity of a system to maintain its fire-retardant properties over time.

1 Initial fire 2 Flashover 3 Fully developed fire 4 Cooling



Approved for fire retardance

Specially engineered for outstanding fire retardance without compromising appearance, our RUBBOL system - using RUBBOL WP 112 FR as primer and finished with one of the RUBBOL WF 33XX topcoats - is approved in Europe in line with standards EN 13501-1 (reaction to fire), 13501-2 (ignitability) and EN 16755 (durability). It's also approved according to the cladding fire test SP Fire 105, which stipulates fire resistance for non-fire

approved spruce substrate at a minimum thickness of 19mm. This system is **classified as B**, the highest fire-retardant rating that can be expected for an organic material like wood. In terms of smoke production, the system is rated **s2**. The RUBBOL system also received the best possible score, **d0**, for zero formation of burning droplets.

| Substrate | Primer | Topcoat | Fire resistance class, tested according to EN 13501-1 | Fire resistance / ignition test according to EN 13501-2 | Durability according to EN 16755 |
|-------------------|--|--|---|---|----------------------------------|
| Spruce (min 19mm) | RUBBOL WP 112 FR (250 g/m ²) | RUBBOL WF 33XX (150 g/m ²) | B-s2, d0 | Passed | Passed |



SYSTEM BENEFITS

Production efficiency

RUBBOL WP 112 FR has outstanding flow, filling and levelling properties. The fast-drying coating is suitable for airless and air-assisted high-pressure spraying in a production line environment. No additional investment in special spraying equipment is required. It's also suitable for application with brushing machines at lower drying conditions. With a maximum VOC rating of 50g per litre, this waterborne primer also qualifies as a low-emissions solution.

29% less primer required

Thanks to its excellent application properties, as little as 250g of RUBBOL WP 112 FR per square metre is needed to achieve fire retardance. This means 29% less primer is required than with comparable products.

Under 2 hours drying time

RUBBOL WP 112 FR represents a huge improvement in drying time efficiency, too, requiring only 1–2 hours before application of a topcoat, as opposed to more than 12 hours with a competitor product. This means 84% less drying time and a more efficient production process. It also offers good in-can stability, with no sediment forming when stored over extended periods.

SYSTEM STRUCTURE

To meet fire safety standards, the RUBBOL system must be applied as illustrated below on a spruce substrate with a thickness of 19mm or more.



* Depending on country



PROTECTION FOR THE HOME

The key component of our fire protection system is an exceptionally effective fire-retardant primer. Used according to instructions, the system provides cost-effective and long-lasting fire resistance for wooden facades.

RUBBOL WP 112 FR



1K fire-retardant waterborne primer

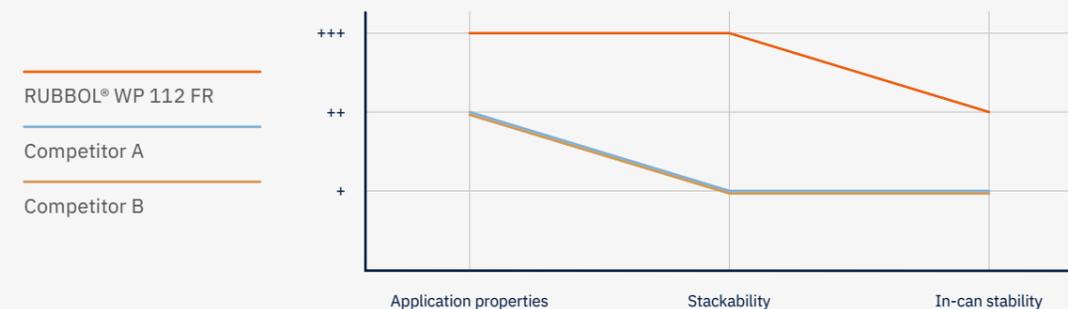
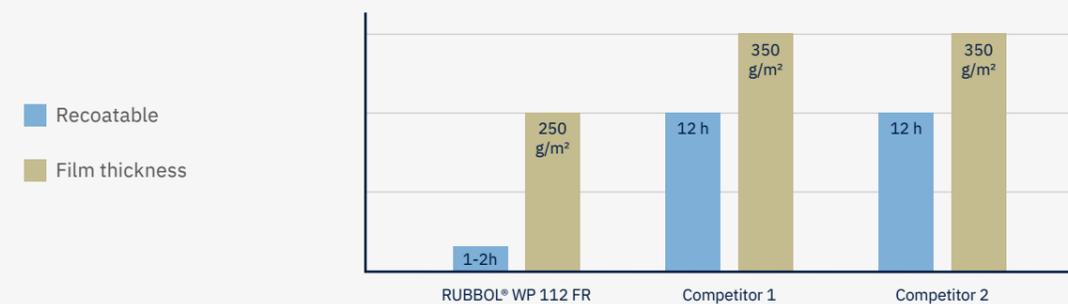
Opaque fire-retardant primer for claddings.

- Quick drying
- Easy to apply
- Excellent wet adhesion

| | |
|-------------------|--|
| Type of binder | Acrylic |
| Main areas of use | Elements: semi-stable |
| Application | Brushing machine, Spray application airmix/airless, vacuum coater/vacumat coater/vacumat    |
| Thinner | Water |
| Colour Shade | Packsize |
| Off-white | 20 l |

PERFORMANCE COMPARISON

BENCHMARKING OF APPLIED QUANTITY AND DRYING TIME AT ROOM TEMPERATURE



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