DRI-GARD FIREVEIL R60

2-Component, water-based transparent intumescent fire-retardant coating for interior use

A clear, water-based, two-component intumescent coating for timber and bamboo. When exposed to fire, the cured film swells to form an insulating char layer. This slows the spread of flame and helps shield the substrate, while the natural grain and colour of the wood stay visible in normal service.

FEATURES/BENEFITS

- Transparent finish to retain natural appearance of timber / bamboo
- Intumescent action forms a protective char layer when exposed to heat
- Water-based
- Non-flammable in wet state
- Suitable for indoor & outdoor application
- Able to be applied via brush, roller or spray

APPLICATION AREAS

- Interior & exterior timber structures
- Timber wall and ceiling linings, panelling and joinery
- Bamboo structures and finishes
- Wood-based panels

PRODUCT DATA

Appearances / Colours	Part A: Colourless to light yellow liquid Part B: Milky white liquid Cures to a clear film
Packaging	24 kg sets
Storage	12 Months from date of production
Storage Condition	Store in original, unopened and undamaged sealed packaging in cool, dry conditions. Protect against direct sunlight & frost. Do not allow to freeze.

TECHNICAL DATA

Origin	Water-based phosphate / amino resin intumescent system
Viscosity (After Mixing)	35 – 45 s (Cup-4)
Specific Gravity	Mixed SG: 1.06 – 1.10
Mixing Ratio	2:1 (interior application) 1:1 (exterior application)
Flash Point	Non-flammable (water-based)
Volume Solids	52% ± 3%

APPLICATION CONDITIONS

Theoretical Consumption	Approx. 0.13 – 0.16 kg/m^2 per coat
Application Method	Brush, roller, spray
No. of Coats	Min. 3 coats
Film Thickness	Wet film thickness: 120 – 150 µm (per coat) Dry film thickness: 60 – 75 µm (per coat)
Pot Life *	At 25 °C: 6 – 8 hours At 30 °C: 4 – 5 hours
Recoating Time	Minimum: 4 – 6 hours (recoat after surface dries to non-tacky finish) Maximum: 24 hours* **Note: Sanding/grinding is required for recoating beyond max. recoating time*
Drying Time	Surface dry: < 60 minutes Hard dry: <2 hours Full cure: 24 hours Complete fire resistance achieved: 7 days

** Note: Drying time & pot life varies with weather conditions. The higher the temperature, the faster the drying time.*

SUBSTRATE

The substrate must be sound, clean and dry, and free from dust, dirt, oil, grease, wax and other contaminants. Remove any existing paint, varnish, stain or sealer completely. The coating must bond directly to bare wood to perform as intended. Sand the surface smooth and remove all sanding dust before application.

For application on bamboo substrates, an additional primer may be required.

MIXING & APPLICATION

Stir Part A thoroughly. Add all of Part B and mix with a low-speed mechanical stirrer until the mixture is homogeneous. Do not break sets. Use the mixed material within its pot life.

TOOLS

Apply by brush, roller or spray.

LIMITATIONS

- Ensure proper protection of surrounding; use protective films, floor protection and other suitable materials to safeguard the finished surface and prevent Dri-Gard Fireveil R60 application from contaminating other surfaces not intended to be coated. Residual coatings may whiten upon contact with water and will be increasingly difficult to clean off.
- Fire-retardant performance depends on reaching the recommended application rate. Reduced consumption will reduce performance.
- Do not apply to damp substrates, when rain is expected or in high humidity or condensation conditions.
- The coating may slightly alter tone of some substrates. Hence, a trial area is recommended before commencing on the full area.
- Should there be water exposure during the application or drying of the coating that causes it to whiten, become damaged, dissolve or suffer other defects, the damaged coating layer must first be completely removed. The affected area should then be repaired according to the original application procedure.
- Use suitable gloves, goggles & PPE to avoid skin and eye contact. Ensure adequate ventilation at workplace.
- For professional use only.

HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.