



# RENITHERM<sup>®</sup> PMW

## Transparent fire protection coating system for wood

### General

Renitherm<sup>®</sup> PMW is an intumescent coating on synthetic resin dispersion base which forms a carbon char under the effect of heat, thus insulating the substrate.

Renitherm<sup>®</sup> PMW fire protection coating for wood insulates against heat, check fire, prevents propagation of fire and diminishes flue-gas density and flue-gas temperature, protects real values for and reduces the risk of damage.

Renitherm<sup>®</sup> PMW fire protection coating for wood has been tested to BS 476 : 7



### Uses:

- solid wood, thickness  $\geq 8$  mm
- particle boards, thickness  $\geq 12$  mm
- plywood for construction, thickness  $\geq 12$  mm
- only for interior use
- protect from mechanical stress

### Application

- recommended conditions for application and during drying time:  
temperature  $> 5$  °C, relative humidity  $< 80$  %, dew point must not be exceeded
- moisture content of wood or wooden materials  $< 10$  %
- check surface for appropriate adhesion: it should be free from dust, dirt, grease, wax, mould, oil, glues and whitewash
- laying out of a trial area is recommended
- if necessary priming with Renitherm<sup>®</sup> PMW Primer. Notice Technical Data Sheet of Renitherm<sup>®</sup> PMW Primer
- no thinning of Renitherm<sup>®</sup> PMW before application
- application by: brush or roller (short pile lambswool rollers are recommended)  
airless spraying, nozzle size: 0.013" – 0,015"  
airspray gun, nozzle size: max. 2 mm
- coverage rate: 450 g/m<sup>2</sup> (about 320  $\mu$ m wet) 475 g/m<sup>2</sup> on plywood (about 340  $\mu$ m wet)
- application in two layers
- Renitherm<sup>®</sup> PMW must be transparent and clear before top coating
- finishing by top coat Renitherm<sup>®</sup> PMW TC(coverage rate 50 – 100g/m<sup>2</sup>)

### Drying time

Drying time as follows refers to a temperature of 20 °C and a relative humidity of about 65 %:

- Renitherm<sup>®</sup> PMW: per layer 12 – 24 hours, fully dry after 48 hours
- Renitherm<sup>®</sup> PMW TC: dust-dry after 4 hours, dried through after 12 hours  
Please be aware that the coating system is sensible to pressure in the first weeks.

Pretreatment with wood preservative	<p>If resistant to wet rot, fungi or insect attack, we recommend using commercial preservative agents based on oil-alkyd resins provided they are compatible with the Renitherm<sup>®</sup> PMW fire protection system.</p> <p>Apply Renitherm<sup>®</sup> PMW fire protection coating system only after the preservative treatment is completely dry.</p>
Surface Maintenance	<ul style="list-style-type: none"><li>• no acid or alkaline cleaner !</li><li>• no solvent !</li><li>• surface cleaning only with dry and smooth cloth</li></ul>
Shelf life	In original sealed containers 24 months
Precautions for Safety at Work	Use Renitherm <sup>®</sup> PMW in accordance with all applicable local and national regulations.
Environment, Health and Safety Data	As regulations are often revised please request for the actual safety data sheet before using this product.
Storage and Transport	<ul style="list-style-type: none"><li>• stored and transported in dry protected conditions</li><li>• shelf-life of unopened pails: 24 months</li><li>• opened pails must be sealed carefully</li></ul>
Cleaning of equipment	Use <b>warm</b> water

Renitherm<sup>®</sup> PMW is a technical coating and not comparable with traditional lacquers. Depending on the substrate, the Renitherm<sup>®</sup> PMW base coat can get light cracks or slightly milky, but this is not affecting the performance of the fire resistance properties.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be constructed as guaranteeing specified properties of products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.



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