

Magma Firestop[®] Woodprotector TG-3

Product Information

Magma Firestop[®] Woodprotector TG-3 is an efficient, fire retardant impregnating coating based on phosphate and nitrogen containing components. Magma Firestop[®] Woodprotector TG-3 contains polymers which make the product suitable for exterior usage without an additional finish layer. This product is suitable to treat organic materials with moisture absorbent abilities such as (soft) wood and several board materials. Magma Firestop[®] Woodprotector TG-3 is an off-white color product which will dry up colorless and will give a hardly visible, fire retardant protection. Materials treated with this product will keep their original properties. When treated material will be exposed to fire, a thin carbon char will be formed which will insulate the material from the fire source and nitrogen will be released which will have an effect on the oxygen supply to the fire.

When required, it's also possible to coat Magma Firestop[®] Woodprotector TG-3 treated wood but only with a suitable and tested coating or oil.

Softwood, treated with Magma Firestop[®] Woodprotector TG-3, comply with fire class C-s2, d0 according to the European standard EN 13501-1

Chemical and physical properties, packaging and transport

Consistency	White liquid, dries up clear
pH	6.8 ± 1.0
Activation temperature	> 145 ° C
Density at 20 ° c	1.13 ± 0.02 g/cm ³
Viscosity at 20 ° c	8 s. (DIN53211/4)
Flash Point	No
VOC	1%, complies with VOC 2010
Dilution	Ready-to-use <u>do not dilute!</u>
Packaging	10 and 25 kg cans, 200 kg drums, 1000 kg IBC
Shelf Life	A shelf life of at least 12 months in closed packaging
Storage	Cool but free of frost (5 ° C/35 ° C)
Transport	Non-hazardous product, no specific requirements
Safety Rules	Please observe the precautionary notices displayed on the container. The user of this product must adhere to the national laws relating to health, safety and environment; do not eat, drink or smoke during the application. Do not flush unused chemicals but dispose this in accordance with local waste disposal regulations. For more information and the latest actual safety particulars see the attached Material Safety Data Sheet (MSDS).

Application

WOOD

It is recommended to perform a test before the entire surface will be treated. Apply the product on a trial sample of the wood and try to figure out what the uptake and penetration will be and ensure yourself about the optical result after treatment.

Complaints regarding colours or aesthetic appearance are only considered when a test prior to the entire surface application has been set and we are informed about any deficiencies.

- Make sure that the material to be treated is dry and clean and free of grease, dust or other pollution.
- Magma Firestop® Woodprotector TG-3 can only be applied to bare wood, old paint layers need to be removed by sanding or planing.
- Check if the material has been treated earlier with an invisible water/dirt repellent agent, when the material has been treated with such a hydrophobic agent it will lose absorption properties.
- Magma Firestop® Woodprotector TG-3 can be easily applied by spraying methods like airless, HVLP or industrial machine sprayers or by dipping method.
- For use with a dip chamber or any machine application, the excess product should be removed from the surface before drying to avoid stains.
- Consumption depends on the absorbing ability of the type of wood and moisture content of the wood, Apply Magma Firestop® Woodprotector TG-3 **always** in 2 layers
average consumption guidelines for:
 - sawn wood +/- 80 gr/m² per layer
 - planed wood +/- 60 gr/m² per layer

Above data is only a general guideline as every wood has type specific properties.

Please note! The absorbing ability of hardwood is much lower than softwood due to the density of the material, lots of hardwood species are difficult or even impossible to give a good fire retardant protection because the material does not absorb enough of Magma Firestop® Woodprotector TG-3.

Drying:

Treated material is able to dry on air in a natural way but drying with increased temperatures and good ventilation will speed up the drying process.

Drying time at 20 ° C and 65% r.h.

Dust free after approx. 1 hour, when required, a second layer can be applied 'wet-on-wet' but watch out because it's possible that abundant use might give stains.

Can be painted after 24 hours

Re-treatment: After 2/3 years this treatment needs to be repeated by a spray/brush or roll application on site.

Magma Firestop® Woodprotector TG-3 treated wood can only be coated with tested and selected coatings, most common waterbased stains or lacquers are not suitable to cover fire retardant treated wood.

Please contact us or your coating supplier for advice on this matter.

This information is based on our current knowledge and is intended to provide general information about our products and application of our products. This document should not be construed as a warranty on the specific properties of the product or on the suitability for a certain application.