

Fireprotection

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Thatch Marshal 8000 fire retardant roof coat system for thatch roofs

How does Thatch Marshal 8000 work?

Thatch Marshal 8000 comprises of a co-polymer emulsion combined with a fire retardant component. The co-polymer emulsion acts as a binding mechanism for the retardant component to migrate into the thatch helm. This process takes 21 days on average.

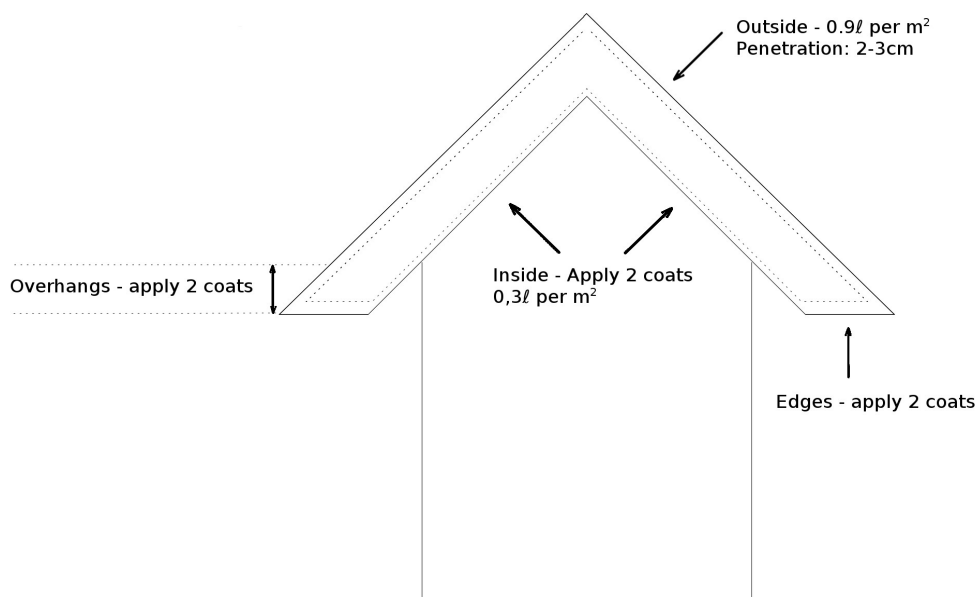
What do we mean by fire retardant SYSTEM?

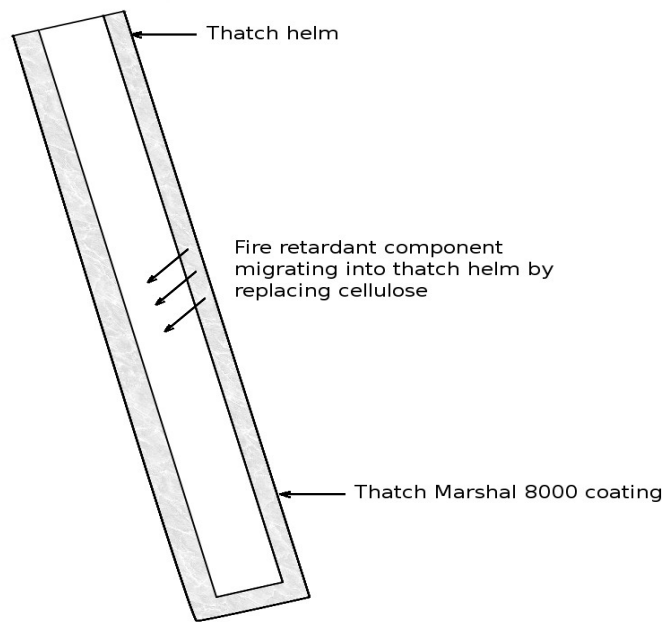
A fire retardant's efficacy is very dependant on how the product is applied to the roof. In South Africa the ASTM E-108 test is used to verify the effectiveness of the fire retardant based on the manufacturer's specified application system.

The following system is prescribed for Thatch Marshal 8000:

- On the outside - 0.9 ℓ per m² is applied at a pressure of 3000 PSI to obtain a penetration of 2-3 cm
- On the inside - 0.3 ℓ per m² is applied at a pressure of 200 PSI - 300 PSI. In order to use the required amount of product, two coats have to be applied

All high risk areas like chimneys, gas appliance areas, braais and parts of thatch bordering open veld has to be treated with two coats.





Is it possible to treat the outside of the thatch only?

No. If any part of the process is not carried out as per the application instructions of Thatch Marshal 8000 the system will be incomplete and the fire retardant functioning may not be the same as the test results of our ASTM E-108 tests done in 2010.

Why should the inside of the thatch be treated?

The inside coating acts as a chemical seal, which cuts off the oxygen in the event of a fire. It helps to limit the flow of air and spread of fire.

Can I use Thatch Marshal 8000 on timber poles?

No, Thatch Marshal 8000 has been not been designed to be used on timber poles.

What will happen if I dip a bundle of thatch into Thatch Marshal 8000 and set it on fire immediately after it has dried?

The outcome may be different from what you expect - the bundle might still burn because the product has not been applied according to the application system as explained above.

The fire retardant component's migration into the thatch helm takes on average 21 days. If you do the test before that time, results will not be optimal.

It is important to remember that the co-polymer emulsion is flammable to a certain extent but once it is applied to the thatch carpet it chemically binds the thatch so that it reduces the flow of oxygen, thereby retarding the fire.

Testimonials:

In the 10 years of working with Thatch Marshal 8000 we have received following testimonials:

Marope Casino:

The overhang was hit by lightning - the fire self extinguished.

Siegfried Heydenrych:

“We had a lightning strike at our lapa recently and the whole chimney was damaged. Very hot bricks was falling on the treated grass roof and damaged a very small piece. But there was no fire: just a little smoke and black burnt grass (about the size of a rugby ball) I am thankful that I had the treatment done!”

Petrol fire:

In Boksburg children used 2ℓ of petrol to make a fire inside a lapa. Only the furniture burned, the lapa was still intact.

Petrol fire 2:

Petrol was poured onto a roof in Kagiso. The petrol burnt, leaving only char marks on the thatch.

Chimney fire:

In Secunda people made a big fire in their lapa's built in braai. The fire transferred to the thatch, since the chimney was not built to code. The fire was successfully retarded.

Gas heater incident:

In Florida children lit a outdoor gas patio heater in their lapa. The reflector cap fell off when they moved it and the flames expelled from the top of the heater scorched the roof, until some thatch started to fall out. They managed to close the gas supply and the fire self extinguished.