



One-meter-wide strip treated with fire prevention substance *PREFIREX* turned white in colour when it

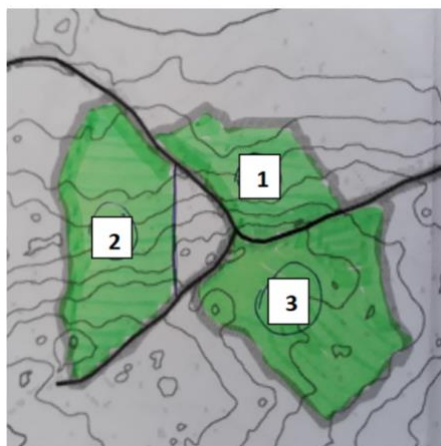
## TESTIMONIAL

### Test plan:

The Emergency Service Academy has tested the **Xpyro PREFIREX** fire prevention substance on three days in a regeneration felling area also with groups of retention trees in Mataramäki, Finland.

The Prefirex substance were spread over a width of about two meters while machine pump was used. One fire-break line was also made on the border of the area to be burned and a scarified area by spreading a one-meter-wide strip of the fire prevention substance. In this case, spreading was carried out using the standard 42-mm hoses used by rescue services.

The actual testing was carried out on three different days. The weather conditions on all three different test days were sunny and slightly windy. The fire prevention substance was spread on the first slash burning day, to all three different areas and this allowed for the testing of the efficiency of the substance over various drying periods (6 hours up to 5 days). When the substance dries (max. 3 days), the water evaporates completely, and the applied area turns from slightly reddish to white color.



### Test results:

A strip as narrow as one meter was sufficient to stop wildfire from spreading in favorable wind conditions.

In a strong forest fire, as the fire progressed to a canopy fire, it was noticeable that the treated lower parts of the trees had been spared. In a shallow thicket, the substance acted in the same way as previous tests, stopping the progress of the wildfire. In the treated logging waste stack, the fire spread more slowly than in untreated logging waste stacks, but the stack finally burned completely due to the high fire load.

The boundary between the treated area and the wildfire can be clearly seen afterwards. When fire reached the treated area, it stopped spreading and died out.

**In all three tests with different terrain conditions showed the functionality and effectiveness of the substance in limiting wildfires.**

**Pekka Toivanen**  
**Planning Officer RDI**  
**Emergency Services Academy Finland**

