

PPO® ForExt - An environmentally friendly solution that stops forest and wildfires

PPO® ForExt has a flame-retardant effect: it puts out the forest fire and prevents it from spreading forward.

HELSINKI, UUSIMAA, FINLAND,
September 10, 2021 /
EINPresswire.com/ -- Finnish
companies PPO-Elektroniikka Oy and
Kiilto Oy have developed an
ecologically friendly fire-fighting
chemical PPO® ForExt for stopping
forest and wildfires. PPO ForExt (patent
pending) is mixed with water and
applied to the outer edges of the fire
area. This unique solution has a flame-
retardant effect: it puts out the fire and
prevents it from spreading.



PPO® ForExt was used in extinguishing forest fires in Kalajoki, Finland, July 2021.

“With the unique PPO ForExt forest fire-extinguishing solution, we provide an environmentally friendly, sustainable, scalable and affordable way to prevent the spread of fire. As a result, we save lives and protect nature and valuable property, says Timo Ohtonen, Managing Director of PPO-Elektroniikka Oy.

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*Timo Ohtonen, Managing
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Oy*

PPO ForExt efficiently prevents the spread of fire
Extinguishing forest and wildfires is a very demanding task. The area can be hard-to-reach and dangerous, constantly requiring a large team of fire professionals 24/7 to control and shut down the fire. Not to mention, fires can last many weeks. PPO ForExt is easy to apply and brings help to the fire area immediately. It is mixed with water and sprayed from helicopters, aeroplanes, fire trucks or any other fire extinguishing equipment straight into the area.

Tested with Finnish rescue service operators

In June, we tested the spreadability of the substance in tests organised by the Etelä-Savo Rescue Department in Mikkeli, Finland. The tests were part of a project by the Rescue Department of the Ministry of the Interior. The tests showed that PPO ForExt mixed with water could be applied with any existing equipment.

A most effective combination was achieved with fire equipment developed in cooperation between the Finnish rescue service and Ponsse Oy; A water tank, pump set and water cannon to be installed on top of a forest machine. This type of equipment reaches the most difficult terrain where fire trucks do not reach.

PPO ForExt showed its effectiveness in Kalajoki forest fires

In June, our solution proved effective in the aftermath of the massive forest fire in Kalajoki, Finland. Firefighters sprayed PPO ForExt into a complex fire area with a Ponsse's forwarder. The water delivered to the site could be sprayed at full pressure over 50 meters on either side of the machine, resulting in a 100-meter comprehensive firebreak at a time.

The forest fire in Kalajoki was the largest in Finland for more than 50 years. The forest area was about 300 hectares. Several Finnish fire brigades were extinguishing the fire burning in the terrain for a long time.

Tackling the global threat

Climate change is a real threat to human life and nature conservation. One of the main reasons for this is wildfires. The more the global average temperature rises, the more wildfires will intensify, and vice versa.

Forest fires and wildfires cause damage worth hundreds of billions of dollars globally. Carbon dioxide emissions from forest fires amounted to approximately 7.8 billion tonnes in 2019.

"We cannot stop this phenomenon, but we can certainly limit possible impacts. That is why we



Tests with the South Savo Rescue Department in Mikkeli_ Finland



Elevating - wildfires and climate change. Tackling the global threat.

ForExt prevents the spread of fire

- Flame-retardant
- Fire suppressive
- Prevents new fires
- Mixes with water
- Can be spread to outer edges or directly at the fire
- Application for helicopters, aeroplanes and fire trucks

A unique solution for fighting wildfires around the world

ForExt
Forest Fire Extinguisher
Made in Finland

PPO® **Kiilto PRO**

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PPO® ForExt flyer

developed PPO ForExt. We have a unique solution that is neither harmful to people nor the environment", says Timo Ohtonen.

PPO-Elektroniikka Oy and Kiilto Oy

PPO-Elektroniikka's more than 30 years of experience in fire extinguishing technology, and Kiilto's 100-year expertise in the chemical industry made it possible to develop this unique solution. Kiilto is responsible for manufacturing the product and PPO-Elektroniikka for its marketing and the development of the spreading technique.

PPO-Elektroniikka Oy specialises in professional electronics and security technology. The company has been producing tailored technology solutions to improve safety and minimise damage for 40 years.

Kiilto Oy is a growing Finnish family-owned company with a hundred-year history. The company develops, manufactures and markets chemical industry solutions in four business areas: construction, industrial bonding, professional hygiene and consumer goods. In addition, Kiilto produces environmentally friendly fire retardants for sectors such as the wood industry and the paper and packaging industry.

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