

## Protect Pro 500

### Prophylactic protection coating material



#### Product description:

For the combating of a fire, as an extinguishing liquid Protect Pro 500 have outstanding characteristics. It has a lower viscosity than water. Burning objects are more effectively wetted. In particular, the extinguishing liquid does not evaporate as fast as normal water at the high temperatures caused by the fire.

When the Protect Pro 500 extinguishing liquid is sprayed on an object, the object being extinguished is cooled down by the endothermic reaction, and extinguishing water does not evaporate as quickly as normal water does. The burning objects can therefore be wetted more effectively, making it easier to extinguish the fire and avoiding the high temperatures that normally occur on a fire. When catching fire, impregnated objects are immediately cooled, will therefore not burn, and cannot be ignited easily. Extinguishing water becomes a chemical water/oxygen mixture and forms detonating gas.

Protect Pro 500 is hence excellently suited as a prophylactic. Thanks to the water-repellent protective film of Protect Pro 500 the fire-inhibiting effect remains active until the normal growth of the objects requires a new treatment. Dead materials outdoors therefore only have to be sprayed with a new protective coating only every 3 to 5 years (depending on air humidity and rainfall).

The addition of wetting agents with a special binding effect (patented) has proven successful in binding the crystal which forms on drying; thereby creating a thin enveloping coating of the phosphate medium and substantially improves the resistance to fire. The new fire-inhibiting agent has the great advantage of being explicitly friendly to the environment. Phosphates are fertilizers, and should not be dispersed in nature, amongst other reasons because they contaminate the water. When Protect Pro 500 is used outdoors, the protective film it forms is washed off by rain or melted snow into the ground only moderately, or not at all, so that natural growth organisms are not affected. Thanks to the freedom from toxicity class the crucial soil ratio is neither changed nor interrupted. Protect Pro 500 connotes such phosphates with which an endothermic decomposition reaction takes place.

Since with the applied Protect Pro 500 solution no solvents are used, water is used as the carrier medium so that Protect Pro 500 can be used on all cultivations, forests, prairies and the like. The normal decaying effect is not thereby interrupted, nor the nutrition-related process disrupted. For example, leaves and grasses can be consumed by animals and insects and digested in the normal way. No side effects are known.

**Fields of application:**

Aerially applied, Protect Pro 500 can reduce the spread and intensity of veldt and mountain fires.

Is used as a fire extinguisher which needs no maintenance and is easy to use.

Is available as a spraying agent in different quantities.

Is used as prevention on all flammable materials.

Is used where objects in homes and buildings which are at risk of being destroyed by fire have to be treated directly e.g. wood, cardboard, papers, grass, curtains, carpets, mattresses, wigs, textiles, paper, packaging, burning oil etc.

**Can be consumed by animals and insects and digested in the normal way. No side effects are known.**

**Product features:**

Protect Pro 500 has a preventive effect against fire. It is flame retardant and prevents the initiation of fire. Is suitable for various materials and products

1. Prevents flame formation
2. Outstanding fire defense
3. Can be used on all cultivations
4. Environmental friendly
5. Easy to handle

**Product data:**

**Color:** clear, colorless

**Delivery form:** liquid

**Shelf life:** 2 years

### Technical data:

<b>Active substance</b>	Flame retardant based on ammonium salts from inorganic acids
<b>Solid content:</b>	approx..10 % by weight
<b>Density:</b>	1,09 g/L
<b>Consumption:</b>	wood: 140 ml/m <sup>2</sup> paper: 60 ml/m <sup>2</sup> textile: 65 ml/m <sup>2</sup>
<b>Chemical resistance:</b>	water soluble

### Processing:

<b>Surface treatment:</b>	wood, paper, textile, all types of absorbent materials
<b>Application:</b>	<b>Coating:</b> Shake well before use. Spray on or apply the liquid all over! <b>Mixing ratio</b> Ready to Use
<b>Cleaning of tools:</b>	water

The given data is for guidance only and is not a legally guarantee. The product has the properties described above. The product information can and is only intended to provide non-binding advice.