

KAPPAFLAM UC

Flame retardant for polymers/dispersions

Chemical composition	micro-capsular ammonium polyphosphate
Appearance	fine, white powder
pH-value 20 °C	5 - 7 (10 %)
Solubility (g/100 ml H ₂ O)	approx. 0.1
Temperature of decomposition (°C)	> 270

Function

KAPPAFLAM UC is a flame retardant especially developed for polymer dispersions. By impact of heat, KAPPAFLAM UC releases incombustible protective gases which prevent the access of oxygen to the flammable substrate.

KAPPAFLAM UC has very low water solubility and can be applied in synthetic materials as well as in water-based coating systems.

Application

KAPPAFLAM UC can be combined with most of the polymers/aqueous dispersions (as e. g. acrylates, polyurethane, latices, polyvinylacetat, polyvinylchlorid). The product has a very good dispersibility.

When producing hardly flammable plastics like polyolefines (polypropylene, polyethylene), KAPPAFLAM UC can be applied as additive for intumescent systems in combination with a carbon source (e. g. pentaerytrol) at a ratio of 1:4. Nitrogenous compounds increase the synergism.

Depending on the requirements and the existing substrate, the necessary application level is between 15 – 30 % by weight, relating to the solid content of the binding agent.

Dilution instruction

KAPPAFLAM UC is nearly insoluble in water and in organic solvents.

Storage

KAPPAFLAM UC remains stable for at least 6 months if stored properly and cool in a tightly closed original container.

Contact

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