

KAPPAFLAM FB 98

Aqueous flame retardant for intumescent coatings

Chemical composition	carbon compound
Appearance	black viscous suspension
pH-value 20 °C	approx. 8.0 (product)
Density 20 °C (g/ml)	approx. 1.3
Solid content (%)	approx. 57

Function

KAPPAFLAM FB 98 is a highly concentrated flame retardant agent for coatings, its function is based on the principle of intumescence. At a temperature above approx. 180 °C a protective foam coating is formed, thus protecting the combustible material against heat impact, the access of oxygen and therefore avoids ignition.

KAPPAFLAM FB 98 is compatible with most of the standard water-based binder-systems and can be used as fire and thermo blocker in flame retardant coatings.

The compliance of specific flame retardant standards and tests depends on the coating thickness and formulation, e.g. the content of KAPPAFLAM FB 98.

Carbon component:

- Start of expansion: from approx. 180 °C
- particle size: at least 70% > 300 µm

Application

Depending on the requirements, 20 – 50 % of KAPPAFLAM FB 98 is formulated with 50 – 80 % of the binder.

By using other additional additives such as foaming aids for foam application or thickening agents, further requested processing or application features can be adjusted.

Detailed standard recipes and formulations are available on request.

Drying:

- one step: approx. 5 minutes at 100 – 140 °C
- two step: pre-dry at 80 – 120 °C and condensate at 120 – 150 °C for approx. 1 – 2 minutes

These conditions and temperature limits should be followed to avoid premature intumescence.

KAPPAFLAM FB 98 should be stirred before use. After stirring with a propeller mixer or impeller mixer, the product is homogeneous and the product can be removed without loss of concentration.

Storage

KAPPAFLAM FB 98 remains stable for at least 6 months if stored properly, cool and dry in a tightly closed original container.

Contact

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