



BIORETARD

Technical Specifications Sheet

Test label: Prüfzeichen: P – BWU03-I-16.5.206
Test centre: Forschungs- und Materialprüfungsanstalt für das Bauwesen (FMPA)
Stuttgart dated October 19, 2012
(Official Material testing Laboratory for the Building Industry)

Flame retardant to finish cellulose fibres in the interior sector in accordance with DIN 4102.
Construction material class B 1.

Product description:	BIORETARD is a clear, colourless flame retardant product on the basis of Non -halogen ammonium phosphor sulphur compounds dissolved in water with a high level of skin compatibility (Pharmatox Report) .
Field of application:	Absorbent materials from natural fibres, such as paper, cardboard, thin plywood, as well as all woven and knitted fabrics of cellulose fibres, their mixtures, also with wool parts, artificial raffia and fleece materials. Fields of application are decoration articles of natural fibres, in particular on the basis of cellulose, decoration materials, also velvet and plush, paper, cardboard, plywood, absorbent reed mats, for fairs, exhibition halls, theatre stages, restaurants and conference rooms.
Characteristics:	Fulfils the requirements stipulated in the Brandschichtest DIN 4102, Class B 1 Even in the case of non-precious metals does not tend to corrode. Does not crystallise on materials under normal climatic conditions. Possesses optimum penetrating characteristics. Hardly influences the product appearance, does not modify the colour of the article to which it is applied. The finish is not water- or washing proof.
Skin compatibility:	Materials finished with BIORETARD are classified as skin-compatible. A Pharmatox report can be presented by special request.
Active agents:	Ammonium-phosphor-sulphur compound, non-halogen
Hazardous Substances	
Regulation:	No compulsory identification.
pH value:	approx. 6.5 – 7.5
Storage:	The active agent in the product is not frost susceptible
Active agent guarantee:	at least 3 years
Application quantity:	0.2 - 0.5 l / m ² . The dry layer to comply with DIN 4102 B 1 in accordance with the test certificate is 165 g / kg for cellulose
Processing instructions:	For materials: In the Foulard-Procedure (request application sheet) or by immersion impregnation by spinning off the product to 60 – 70 % residual humidity. In the case of materials, which are difficult to moisten, it is possible to add a moistening material. For cardboard, paper: Immersion, painting, spraying. In the case of special situations, we recommend separate tests.

Drying temperature: room temperature, in the case of heat between 100 – 130° C
Special observation: Decorations furnished with flame-retardants may lose the flame protection characteristics after long periods of use resp. due to the deposition of dust. They must be treated from at specific intervals (about once in 2 years) with BIORETARD after being washed in advance.

For further information ask for the Safety Specification Sheet on this product.

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