



Flamebloc® GS 700

Char forming fire retardant liquid for open cell foam



- Contains no petroleum derivatives or PBDEs
- Low VOCs
- No halogen required
- Easy clean-up with hot soapy water

Flamebloc GS 700 is a flame retardant for open cell foams that can be used as supplied or diluted with water to meet the specific fire code(s) needed. The product is an aqueous solution of polyaminophosphates and brominated salts. Flamebloc GS 700 is non-toxic, non-hazardous and contains no petroleum derivatives, PBDEs, or restricted chemicals.

Mechanisms and function

Flamebloc GS 700 prevents flame propagation by forming a carbon char and by interference within the gas phase of the flame. Some of the proprietary ingredients contribute to flame resistance by melting below flaming temperatures and resolidifying in the form of carbon char, which prevents propagation and weakens any flame by limiting its fuel consumption. The rest of the active ingredients interfere with the flame's internal energy exchange, quelling and preventing flaming. Since open cell foams generally have a low melting point, treated foam will tend to retreat before the flame front, but will not support ignition. Smoke generation is also greatly suppressed.

Application

Flamebloc GS 700 can be applied by soaking or by vacuum methods. It is crucial to thoroughly saturate the foam with the product; some mechanical manipulation may be required

to defeat the air entrapped within the foam. Excess material should be removed by rollers or other methods, followed by moving and/or heated-air drying.

Flamebloc GS 700 is not durable in that it can be removed by water, ie the foam should be re-treated if submerged, or after repeated deep-steam cleanings.

Packaging and handling

Flamebloc GS 700 is available in 5 gallon pails, drums, and intermediate bulk containers.

Refer to the Material Safety Data Sheet for suitable materials of construction for handling and storing this product.

Improper handling of this product can result in injury. Observe all precautions shown on the Product Label and in the Material Safety Data Sheet.

Typical product characteristics	
Total solids	31 – 34%
Appearance	water clear
Density at 25°C (77°F)	1.19 – 1.23 g/cm ³
Weight per US gallon	9.9 – 10.2 lbs
pH (Neat)	5.5 – 6.5
Coverage	saturate and extract

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. The exclusive remedy against seller shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

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