

Superior flame retardancy means enhanced protection for people, property and the environment

New flame retardants for gelcoats

Flame retardancy in the gelcoat gives you the freedom for reinforcement in the laminate.

The protective gelcoat with Exolit gives you the opportunity to reach highest flame retardant requirements, while the composite itself contains only a low amount of a liquid Exolit product type.

Exolit AP 740 (TP) for polyester gelcoats

Exolit AP 750 for epoxy gelcoats

Exolit AP 740 (TP) and Exolit AP 750 are white, free flowing powders.



Achievable standards (thickness of gelcoat should be > 500 µm):

Application	Test	Description	Classes
Railway	DIN 5510	fire behavior and side effects	S4 SR2 ST2
Building	DIN 4102	chimney test	B1
	NF 92-501	epiradiateur	M1
Electrical Engineering	UL 94	burning time after ignition	V-0

Concentration: UP gelcoat: 25-75* parts Exolit AP 740 (TP)/ 100 parts resin

EP gelcoat: 25-75* parts Exolit AP 750/ 100 parts resin

* depending on resin and burning classification

The addition of Exolit AP 740 (TP) / AP 750 in the gelcoat gives an intumescent effect. The flame retarded gelcoat foams on exposure to heat. The carbon foam layer from the gelcoat protects the whole composite by its heat insulation effect, reduces gaseous decomposition products and prevents further oxygen access.

This results in a low smoke density which is a key requirement of the modern transportation industry.

Exolit AP 740 (TP) / AP 750 are special useful for non halogenated flame retarded RTM composites. No solid flame retardants have to be added to the laminates.

We recommend Exolit OP 910 as a liquid flame retardant for the laminating resins.

Of course Exolit for composites are **non halogenated** flame retardants.

Please note

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses.

It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

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