

## Technical Data Sheet

## EUROPEAN CLASS B PAR - CLEAR FIRE-RETARDANT SYSTEM

Supersedes previous issue dated 12 November 2019

DATE 16 April 2020

### Areas of use

Flat panels, assembled furniture, turned parts.

As this is a flame retardant product, always test if the performance and the final appearance match the standard for the intended end use.

### Certifications

- EN13501: B S2 d0 fire retardancy class on chipboard and massive fir (20 mm thickness) (starting substrate classification: D).  
WARNING: according to EN 13501, each customer should repeat the test on his own substrates to confirm the final classification and use the "CE" mark.

**Coating system notes:** The whole fire-retardant coating system, consists in two coats of basecoat (FU0101/00) and one coat of topcoat (FZ10XX/00).

It is essential to strictly follow the instructions (i.e. hardener ratio, sprayed amounts) provided in this technical data sheet to ensure class B fire resistance on the treated substrates.

**Description of fire retardant coatings system:** (see each component for hardening ratio):

<b>Basecoat:</b>	FU0101/00 (hardener FH0102/00):	2 coats of 200-250 gr/m <sup>2</sup> each (400-500 gr/m <sup>2</sup> total)
	Interval between coats:	3-16 hours without sanding
<b>Sanding:</b>	manual - at least 24 hours after the second coat of basecoat Also machine sanding is applicable. In any case, sanding of a fire retardant coating must be light so that not to excessively reduce the film thickness with consequent decrease in protection against fire.	
<b>Topcoat:</b>	FZ10XX/00 (hardener FH0004/00):	1 coat of 60-80 gr/m <sup>2</sup>
	Total application weight (basecoat + topcoat):	460-580 gr/sqm

**N.B.:** DATA PROVIDED ON THIS TECHNICAL DATA SHEET CORRESPOND TO OUR BEST KNOWLEDGE AND EXPERIENCE. WE ASSURE CONSISTENCY ON THE CHEMICAL-PHYSICAL CHARACTERISTICS OF OUR PRODUCTS, WITHIN THE TOLERANCE LIMITS SPECIFIED ON OUR TECHNICAL DATA SHEETS. RESPONSIBILITY OF FINAL RESULT OF PRODUCT APPLICATION IS FULLY UP TO THE USERS, WHO SHALL MAKE SURE THAT THE PRODUCT CORRESPONDS TO THEIR OWN NEEDS WITH REGARD TO APPLICATION SYSTEM, TO SUBSTRATES USED AS WELL AS TO WORKING CONDITIONS.

**WARNING:** ACTUAL VISCOSITY OF SOME PIGMENTED AND/OR THIXOTROPIC PRODUCTS MAY DIFFER FROM THE VISCOSITY SHOWN ON THE TECHNICAL DATA SHEET. DIFFERENCES ARE TO BE REGARDED AS ACCEPTABLE IF WITHIN 30% MAXIMUM.

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- UNI EN ISO 9001 -  
- UNI EN ISO 14001 -

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### Technical characteristics of the basecoat FU0101/00:

Method of use:	spray		
Mixing procedure:	by weight		
Part A	FU0101/00	100	
Part B (hardener)	FH0102/00	30	
Thinner	DT0436/00	0-20	
Solids content (%):	73.6 ± 2		
Specific gravity (kg/lt):	1.240 ± 0.030		
Brookfield viscosity 20°C (cps):	Part A	20000 ± 5000	
Drying time:	Touch dry	3 hours	
	Stackable:	48 hours	
Pot-life:	3 hour		
Shelf-life:	If the product (part A) is properly stored, shelf-life is unlimited. Part B should be used within 6 months.  After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.		

### Technical characteristics of the topcoat FZ10XX00:

Versions	2, 25 gloss		
Method of use:	spray		
Mixing procedure:	by weight		
Part A	FZ10XX/00	100	
Part B (hardener)	FH0004/00	10	
Thinner	DT0436/00	0-30	
Solids content (%):	40 ± 2		
Specific gravity (kg/lt):	1.000 ± 0.030		
Viscosity at 20°C (DIN 2):	56" ± 5"		
Drying time:	Dust free:	60'	
	Touch dry:	120'	
	Stackable:	24 hours	
Pot-life:	2 hours		
Shelf-life:	12 months.  Always check homogeneity and stir well before use to eliminate any possible sediment.		

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### General characteristics of the system:

FU0101/00 ensures excellent build and good clarity even in case of high application weight.

Some types of glues may react with fire-retardant additives contained in the basecoat and cause blooming. A preventive test is therefore always required to check the product's reaction.

FZ10XX/00 is topcoat characterized by a good scratch resistance, excellent smoothness and softness and ease of use (by spray).

The full system overcomes the typical problems of fire retardant coatings: it is not subject to blushing in time if not exposed for long period of time to high temperature and humidity. Chemical-physical performances as well as drying time are similar to conventional PU systems.

The previously stated amounts refer to the products applied without thinner (i.e. A+B). If the product is thinned, increase the amount applied so to ensure the same final dry film thickness.

### Warning

Before use, both basecoat and topcoat are to be carefully stirred to the bottom of the can using a long spatula or a stick.

Any sediment due to storage must be homogenized with the rest, otherwise aesthetical characteristics and fire resistance performance will be affected.

Keep products from humidity. Avoid application in humid environment.

The products perform their fire-retardant action through intumescence when exposed to a suitable temperature.

Due to active principles in it contained, FU0101/00 may change its color over time assuming a more honey-colored shade. This color change is natural, not controllable and doesn't affect the application and the fire retardant performance.

During crosslinking time, gloss level of the topcoat tend to decrease slowly and stabilize within 2-3 days

**Keep products from heat.**

**Do not store at temperatures exceeding 50°C.**

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