SAYERLACK®
INNOVATIVE WOOD SOLUTIONS

COMPANY WITH
MANAGEMENT SYSTEM
- UNI EN ISO 9001 -
- UNI EN ISO 14001 -

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P. IVA: IT 00494251200 - R.E.A. n. 313180
Cap. Soc. Euro 2.626.182 I.V. - Codice Mecc. Bo 014531

Company under the direction and coordination of The Sherwin-Williams Company, USA

Technical **Data Sheet**

TO
CLEAR HIGH GLOSS FIRE-RETARDANT SYSTEM

Supersedes previous issue dated 10.14.16 *DATA 08/03/17*

Certifications BS 476 – Part. 7 – Class 1 – MDF

Areas of use

Flat panels (doors), assembled furniture, turned parts.

Not to be used on veneers glued with thermoplastic materials, assembled parts with cellular or laminated structure with air cavities (e.g. rattan) or cavities filled with heterogeneous materials.

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

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

Insulator TU0565/00 (hardener TH0765/00): 1 mano da 80 gr/m^2

Basecoat: PU4101/00 + PX4102/00: 2 coats 250 gr/m^2 (total 500 gr/m^2)

Time between coats: 30 - 45'

Sanding: 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.

Topcoat: TL4100/00: 1 coat of 110 gr/m²
Total application weight (insulator + basecoat + topcoat): 690 gr/sqm
Minimum total film thickness: 320 µ

Technical characteristics of the insulator TU0565/00:

Method of use:	spray	
Mixing procedure:		by weight
Part A	TU0565/00	100
Part B (hardener)	TH0765/00	100
Solids content (%):	11 ± 1	
Specific gravity (kg/lt):	0.830 ± 0.030	
Viscosity (DIN 4 at 20°C):	Part A	44" ± 5"
	A + B	13" ± 2"
Drying time:	Dust free:	10 - 15'
	Touch dry:	3 hours
Pot-life:	5 hours	
Shelf-life:	If the product is properly stored, shelf-life is unlimited. After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.	

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Technical characteristics of the basecoat PU4101/00:

Method of use:	spray	
Mixing procedure:		by weight
Part A	PU4101/00	66
Part B (hardener)	PX4102/00	33
	PH0777/00	2
	PH0999/00	2
Solids content (%):	75 ± 2 (PU4101/00);	97 ± 2 (PX4102/00)
Specific gravity (kg/lt):	1,38 ± 0.03 (PU4101/00);	1,15 ± 0,03 (PX4102/00)
Viscosity (DIN 4 at 20°C):	Part A	9000 ± 1000 cps (PU4101/00)
Drying time:	Dust free:	20’
	Touch dry:	40’
	Sandable	24 hours
Pot-life:	1 hour	
Shelf-life:	After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.	

Before application add 50% PX4102/00 additive for FR polyester and mix thoroughly. The amount of catalyst and hardener is referred to the sum of polyester and additive weight.

Apply the basecoat on substrates previously insulated with TU0565/00. If possible apply the PE before 12 hr without sanding (refer to TU0565/00 product data sheet)

To apply this product 2 component spray gun is recommended.

interval between coats should be approx. 30 minutes checking the exact gel time which indicates when overcoat.

Mixing ratio at 2% with PH0777/00 and PH0999/00 refers to temperatures between 20°C and 30°C.

In addition to the environment temperature specification, the product temperature should not be less than 20°C and, if possible, not more than 30°C

Technical characteristics of the topcoat TL4100/00:

Method of use:	spray	
Mixing procedure:		by weight
Part A	TL4100/00	100
Part B (hardener)	TH0735/00	100
Solids content (%):	63 ± 2	
Specific gravity (kg/lt):	1,020 ± 0,030	
Viscosity at 20°C (DIN 4):	38 ± 2	
Drying time:	Dust free:	40’
	Touch dry:	3h
	Stackable:	48 hours
Pot-life:	4 hours	
Shelf-life:	If the product is properly stored, shelf-life is unlimited. After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.	

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TL4100/00 topcoat is meant to complete the flame retarded PE coating system. The recommended amount to be sprayed is Min 110 Max 130 g/m^2

Buffing is possible after 3 - 5 days

Use DT0441/00 for thinning. Avoid usual thinner for high gloss products as they may cause surface defects like pinholes

Warning

Before use the basecoat must be carefully stirred to the bottom of the can by means of a long spatula or a stick and homogenized with PX4102/00 .

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

The products perform their fire-retardant action through a progressive carbonization reaction in relation to the temperature they are subject to.

Keep products from heat.

Do not store at temperatures exceeding 50°C.