

Technical Data Sheet

TA-1 CLEAR PU FIRE-RETARDANT SYSTEM

Supersedes previous issue dated 08/31/15

DATA 05/31/17

TA-1 is a code used to encompass the whole fire-retardant coating system, consisting in two coats of basecoat

(TU0022/00) and one coat of topcoat (TZ2210/00, TZ2225/00 or TZ2275/00).

It is essential to follow the instructions provided in this technical data sheet to ensure class 1 fire resistance and therefore validity of homologation.

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

- UNI 9796 - Approval n° BO1159PVI1000012 Cl. 1 reaction to fire.

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.

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

Basecoat: TU0022/00 (hardener TH0222/00): coats of 140 gr/m² each (280 gr/m² in total)
Interval between coats: 2 hours

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: TZ2210/00 – TZ2225/00 – TZ2275/00 (hardener TH0222/00): 1 coat of 110 gr/m²
Total application weight (basecoat + topcoat): 390 gr/sqm

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MANAGEMENT SYSTEM
- UNI EN ISO 9001 -
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Company under the direction and coordination of The Sherwin-Williams Company, USA

Technical characteristics of the basecoat TU0022/00:

Method of use:	spray		
Mixing procedure:	by weight		
Part A	TU0022/00	100	
Part B (hardener)	TH0222/00	50	
Solids content (%):	66.5 ± 2		
Specific gravity (kg/lt):	1.150 ± 0.030		
Viscosity (DIN 4 at 20°C):	Part A	150" ± 5"	
	A + B	18" ± 2"	
Drying time:	Dust free:	5'	
	Touch dry:	80'	
	Stackable:	24 hours	
Pot-life:	1 hour		
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.		

Technical characteristics of the topcoat TZ22XX/00:

Versions	10, 25, 75 gloss		
Method of use:	spray		
Mixing procedure:	by weight		
Part A	TZ22XX/00	100	
Part B (hardener)	TH0222/00	50	
Solids content (%):	49 ± 2		
Specific gravity (kg/lt):	0.990 ± 0.030		
Viscosity at 20°C (DIN 6):	23" ± 2"		
Drying time:	Dust free:	20'	
	Touch dry:	90'	
	Stackable:	24 hours	
Pot-life:	2 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.		

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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General characteristics of the system:

TU0022/00 ensures excellent build and clarity even in case of high application weight. Some types of glues may react with fire-retardant pigments contained in the basecoat and cause blooming. A preventive test is therefore always required to check the product's reaction. TZ22XX/00 is a very versatile topcoat characterized by a good scratch resistance, as well as an excellent smoothness and ease of use (by spray). The full system overcomes the typical problems of fire retardant coatings: actually it does not cause problems of blushing and chemical-physical features as well as drying time are similar to conventional PU systems. Due to active principles in it contained, TU0022/00 can change its color over time assuming shade honey-colored. This color change is natural, not controllable and doesn't affect the application and the fire retardant performance.

Warning

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

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

Keep products from humidity. Avoid application in humid environment.

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.

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