

TECHNICAL DATA SHEET

supersedes previous issue dated 04/11/04

TA
CLEAR PU FIRE-RETARDANT SYSTEM

TA is a code used to encompass the whole fire-retardant coatings system, consisting in two coats of basecoat (TU 22) and one coat of topcoat (TZ22**).

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

Certifications

- UNI 9796 DM 06/03/92 Ministero degli Interni omologazione n° BO1159PVI100001 Cl. 1 di reazione al fuoco.
- UNE 23.727-90 Campus de la UAB - Applus - Bellaterra - Barcelona - España expedient número 300 8471 Cl. M.1 reacción al fuego por la Arch Coatings España S.L. • BS 476 - Part 7 - Class 1 - Oak, birch plywood and pine-veneered 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.

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

Basecoat: TU 22 (hardener TH 222) - 2 coats of 150 gr/m² each (300 gr/m² in total)

Interval between coats: 2 hours

Sanding: manual - at least 24 hours after the second coat of basecoat
 In any case, sanding of a fire retardant coating must be light so that not to excessively reduce the film thickness with consequent decrease of protection against fire.

Topcoat: TZ 22** (hardener TH 222) -1 coat by 150 gr/sqm

Total application weight (basecoat + topcoat): 450 gr/sqm

Technical characteristics of the basecoat TU 22:

Method of use:	spray or curtain coater		
Mixing procedure:		by weight	by volume
	Part A	TU 22 100	100
	Part B (hardener)	TH 222 50	60
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	
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 topcoat TZ 22**:

Versions	10, 25, 75 gloss		
Method of use:	spray or curtain coater		
Mixing procedure:		by weight	by volume
Part A	TZ 22**	100	100
Part B (hardener)	TH 222	50	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.		

General characteristics of the system:

TU 22 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. TZ 22** is a very versatile topcoat characterised by a good scratch resistance, as well as an excellent smoothness and ease of use (by spray and curtain coater).

The full system solves the typical problems of fire retardant coatings: actually does not give problems of blushing and drying time is similar to conventional PU systems.

Warning

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

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

Keep products from humidity. Avoid application in humid environment.

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

Keep products from heat.

Avoid storage at temperatures exceeding 50°C.