

Technical Data Sheet

TC

PIGMENTED PU FIRE-RETARDANT SYSTEM

Supersedes previous issue dated 02/02/06

DATE 05/08/2013

TC is a code used to encompass the whole fire-retardant coatings system composed of two coats of TU0022/13 basecoat and one coat of TZ2210/00, TZ2225/00 or TZ2275/00 topcoat mixed with pigmented pastes TP4140/ABC.

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.

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 (i.e. rattan) or cavities filled with heterogeneous materials.

Certifications

UNI 9796 DM 06/03/92 Ministero degli Interni omologazione n° BO1159PVI100003 Cl. 1 di resistenza al fuoco.

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

Basecoat: TU0022/13 (hardener TH0333/00) - 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: TZ22**/00 (hardener TH0333/00), TP4140/ABC -1 coat by 150 gr/sqm (the quantity of the paste shall not exceed 30%)

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

Technical characteristics of the basecoat TU0022/13:

| | | | |
|----------------------------|-------------------|---------------|------------------|
| Method of use: | spray | | |
| Mixing procedure: | Part A | TU0022/13 | by weight 100 |
| | Part B (hardener) | TH0333/00 | 50 |
| Solids content: | Part A | 76% ± 2% | |
| | Part B | 24% ± 1% | |
| Specific gravity: | Part A | 1.220 ± 0.030 | |
| | Part B | 1.000 ± 0.030 | |
| Viscosity (DIN 4 at 20°C): | Part A | 140" ± 10" | |

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.

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

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

| | | |
|--------------|---|----------|
| 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. | |

Technical characteristics of the topcoat TZ22**/00:

| | | |
|-----------------------------|---|--------------------|
| Versions | 10, 25 and 75 gloss Following the addition of the pigmented paste, gloss level may slightly vary. | |
| Method of use: | spray or curtain coater | |
| Preparation of the topcoat: | | by weight |
| | TZ22**/00 TP4140/ABC | 70 min. 30 max. |
| Mixing procedure: | | by weight |
| | Part A TZ22**/00 + paste Part B (hardener) TH0333/00 | 100 50 |
| Solids content (%): | TZ22**/00 | 49 ± 2 |
| | TP4140/ABC | see TDS |
| | TH0333/00 | 24 ± 1 |
| Specific gravity (kg/lt): | TZ22**/00 | 0.990 ±0.030 |
| | TP4140/ABC | see TDS |
| | TH0333/00 | 1.000 ±0.030 |
| Viscosity (DIN 4 at 20°C): | TZ22**/00 | 95" ± 5" |
| 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. | |

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Warning

Before use, both basecoat and topcoat are to be carefully stirred down to 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.

To pigment the topcoat, the quantity of TP4140/ABC pastes may vary from 5 to 30% maximum, depending on the colour and hiding power desired.

The final specific gravity and gloss level may vary depending on the quantity and the type of paste used, as a result mixing is to be made by weight.

The paste is not to be dissolved in the thinner, but added directly to the coating to be pigmented, to be then stirred well in order to ensure a perfect dispersion of the paste.

An even better system is to dissolve the paste in a little quantity of coating, then add the blend to the rest.

Because of principles contained in TU0022/13, can vary its color over time assuming a note more pale yellow. This color change in natural, is not controllable and does not compromise in any way the application characteristics and flame resistance.

Because of the active principles contained TU0022/13 can vary its color over time assuming a note more pale yellow. This color change is natural, is not controllable and does not compromise in any way the application characteristics and flame resistance.

Caution

The product is sensitive to heat. Avoid storage at temperatures above 50 °C.

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