

Technical Data Sheet

FIRE RETARDANT SCRATCH RESISTANT CLEAR POLYURETHANE/ACRYLIC SYSTEM

DATE 08/31/12

Gloss level:	30 gloss
Area of use:	Wooden substrates even if used as flooring, flat parts, panels, finger-jointed veneers, plywood glued with thermosetting glues but in any case without air cavities.
Method of use:	Spray (manual and automatic, even high-pressure). Any resin or oil sacs present on the substrate may affect the final colour, as well as its application and fire resistance test. As a result, the substrate must be well cleaned and carefully sanded before the applying the coating system.
Description and procedure:	
Thinning:	Recommended application weight indicated below refer to undiluted product. In case of thinning, increase application weight proportionally. Thinning is to be made before use.
Basecoat:	TU0022/00, hardened at 50% with TH0222/00 and thinned up to 10% with DT1150/00 or with DT0040/00 to slow drying during summertime or in tropical areas (1 coat @ 150 g/m ²).
Sanding:	sanding shall be made manually at least 24 hours after application of the basecoat with P280/320 grain sandpaper. Sanding of fire retardant coatings shall always be light, so that not to remove too much the underlying coating film, thus reducing the protection against fire.
Topcoat:	TZL3020/00, hardened at 20% with TH0790/00, thinned up to 40% with DT1150/00 or with DT0040/00 to slow drying during summertime or in tropical areas (1 coat @ 150 g/m ²).
Final drying:	Let dry for at least 24 hours at 20°C before handling the coated items.
To obtain Class Bfl-S1 fire certification as per EN ISO 9239-1 it is indispensable to comply with the guidelines provided on this technical data sheet.	
Maintenance:	In order to preserve the fire retardant characteristics and properties as well as compliance with with the reference regulations, if the coated item is subject to heavy wear and tear, maintenance is required to restore the initial quantity of coating. As a result, periodic checks of coatings status and quantity are recommended.

Technical characteristics of TU0022/00 basecoat:

Solids content (%):	66.5 ± 2
Specific gravity (kg/l):	1.150 ± 0.030
Viscosity (DIN 4 at 20°C):	150" ± 5"

Technical characteristics of TH0222/00 hardener:

Solids content (%):	24 ± 1
Specific gravity (kg/l):	1.000 ± 0.030

Technical characteristics of TZL3020/00 basecoat:

Solids content (%):	36 ± 2
Specific gravity (kg/l):	0.980 ± 0.030
Viscosity (DIN 6 at 20°C):	38" ± 3"

Technical characteristics of TH0790/00 hardener:

Solids content (%):	36 ± 1
Specific gravity (kg/l):	0.950 ± 0.030

Technical characteristics of DT1150/00 thinner:

Specific gravity (kg/l):	0.850 ± 0.030
Flash-point:	-5°C

Technical characteristics of DT0040/00 slow drying thinner:

Specific gravity (kg/l):	0.882 ± 0.030
Flash-point:	+23°C

General characteristics

Shelf-life (months):	12
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COMPANY WITH
MANAGEMENT SYSTEM
- UNI EN ISO 9001 -
- UNI EN ISO 14001 -

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Cap. Soc. Euro 2.626.182 I.V. - Codice Mecc. Bo 014531

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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.

TZL3020/00 is a acrylic/polyurethane topcoat specifically designed for the high-performance finishing of fire retardant coatings. It is characterized by a smooth touch, good wettability and scratch resistance.

After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.

Warning

Thinned material may generate a hard sediment in a short time. As a result, we suggest to thinned only the material required to complete the work.

General instructions

- Store the product in rooms where the temperature does not fall below 5°C.
- During application, keep the product, the substrate and the room at a temperature of at least 15°C.
- Coating residues (washing water, booth water, used coating) must be disposed of in accordance with current legislation. Do not pour residues down drains.

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.