

# PU CLEAR MATT FLAME RETARDANT

Product code: E/150X IT (0,1,2,3,4)

Color: Transparent  
Finish: Matt

## Composition and Application Field

Clear PU topcoat endowed with very good coverage, plasticity, hardness, softness. It is used for furniture, furnishings components, cabinet doors, windows, etc... It can be used in tunnel varnishing cycle with forced air and in environment conditions. This product has a property of protection the wood against fire that mean the capacity of the varnish film to delay the propagation of flames (for up to one hour) in case of fire, and doesn't concern the protection of the substratum from fire effects. **[This product is certified by Warringtonfire following Technical Schedule TS19 Class 1 (BS) according to test standard BS 476: Part 7: 1997 and approved by Dubai Civil Defense under license no. LMTNA0000135842-2019. This product is following the LEED Certified EQ C4.2 as part of the rules 1113 for the architectural coatings, it has a Low VOC, less water and less exempt in the range of 94 g/l]**

## Available in the following versions

E/1500 IT	6±3% Gloss
E/1501 IT	12±3% Gloss
E/1502 IT	30±5% Gloss
E/1503 IT	50±5% Gloss
E/1504 IT	70±5% Gloss

**N.B:** The full Glossy will not be more than 70%

## Product Preparation

<b>Catalyst</b>	by weight	by volume	with hardener
	50%	50%	E/1015 IT

**Additives** Not necessary in normal conditions

**Pot Life** 3hrs. at 25°C

**Dilution** Spraying: Dilute with PU thinner E/613 at 20-30%.  
In case of hot and humid climate, add 5 -10% of PU retardant thinner E/622.

## Specification

### Physical Properties

Specific gravity	1.12	(± 0.025) Kg/l
* Viscosity.Ford 4/25°C	80	(± 5) Sec.
Weight solids	56%	(± 2) Kg/Kg
Weight solids blended	41%	(± 2) kg/kg
Flash Point	21	centigrade

(Abel Pensky closed cup)

Application Rate ..... 200gr/m<sup>2</sup> (per coat)

## Drying @25°C

Dust free	15 mn
Touch drying	25 mn
Interval coats	1.30 hr
Deep drying	24 hrs

## Dry Film Characteristics

### Mechanical Characteristics

Gloss .....	From 5 to 70 (ASTM D523/67)
Adherence .....	Very Good (on wooden substrates)
Plasticity .....	Very Good
Covering .....	Very Good

## Surface Preparation

Good sanding of wood surface is advisable before application of E/1464 IT, with sanding paper 100. Control the compatibility of stains eventually used, the number of coats is related with the coverage desired but normally not less than 2 cross coats, after that sand very well the basecoat with sanding paper 220 grain followed by number 400, in order to get the appropriate smoothness before the application of the topcoat E/150X IT.

## Application Method

You can apply the product as follows:

Spray gun: It is possible to use even airless and air-mix equipment.

Curtain: This product can be applied even with curtain coater; control the viscosity during application adding PU thinner to balance the evaporation of solvents.

Apply one or more coats according to the desired covering.

## Subsequent Treatments

After drying this product, it does not need any subsequent treatment.

## Note

For a correct working cycle, verify that:

- Used stain must be dry;
- Substrate humidity must be under 20%;
- No grease and residues on substrate that can cause defect on wetting;
- Substrate hadn't treated with ammonia and peroxide.

For a better result of covering, sanding between coats is advisable. Follow the indication of reducing and time of interval coats.

## Packing

Available in 1 ltr, 5ltr, 25ltr.

## Storage

If the drum is hermetically closed and well stored at 25°C, the product has 18 months of shelf-life.

The hardeners have 6 months of shelf-life.