



FIRE RETARDANT R - 551

General Description:

FIRE RETARDANT R – 551 is a two component Class 1 (one) antifire intumescent polyurethane paint in the following versions.

R – 551 / Base (2: 1) Pigmented
R – 551/ Topcoat (1: 1) Pigmented

Major Uses:

R – 551 is a class 1 anti-fire treatment for panels of any type, thickness and use (wall or ceiling match boarding, scenography, stands, furniture, furnishings, etc..) with exception to panels veneered with thermoplastic glues and those assembled with cellular structure (beehive) or in listels.

Apart from being an excellent anti- fire product, R – 551 paints also provide excellent resistance to chemical agents, are elastic and offer thermal stability. They can also be used on old objects previously painted with other products, even if not anti-fire as long as the two products are found to be compatible to each other.

Characteristics and Physical Properties:

R – 551 / BASE	
Color	pigmented
Viscosity	70" Din # 4
Pot Life	60 min
Volume Solids	70-75%
Flash Point	20 ⁰ C
Dust Dry	45 min.
Hard Dry	8 hrs.
Sandable	24 hrs.

R – 551 / TOPCOAT	
Color	Pigmented
Viscosity	60 " Din # 4.
Pot Life	6 hrs.
Volume Solids	70%
Flash Point	20 ⁰ C
Dust Dry	45 min.
Hard Dry	2 hrs.
Sandable	18 hrs.

Note: Ambient temperature should be 20⁰C and relative humidity 65%.

Application:

- The product is supplied at its correct viscosity and, therefore, further dilution is not recommended; make sure that the

wood is dry (approx. 12% humidity), clean and free would otherwise prevent the perfect anchorage of the product.

- Mix both the product well before and after mixing the two components and then proceed with application which may be carried out by paint brush, curtain coating and spraying systems based on one of the following work cycles.
- Application of 400 gms. / m² of R – 551 / Base in two separate coats at intervals of approx. 20-40 min. (wet on wet). Light sanding (180 – 200 grit sand paper) should be carried out in any case after 24 hrs. followed by the application of topcoat of R – 551 / topcoat in quantities of 200 gm./ m². Overall consumption starts from a minimum of 600 gm / m² of product applied

Method of Application: By brush, roller, airless and Conventional Spray.

Spray Data	
Conventional Spray	
Nozzle Orifice	2 – 3mm.
Nozzle Pressure	43 – 57 psi.
Dilution	Not Recommended
Airless	
Nozzle Orifice	0.38 – 0.46 mm.
Nozzle Pressure	1138 - 1710 psi.

Storage:

When preserved in its original packaging, keep away from excessively high and low temperatures. Shelf life of 6 months in a tightly close container.

UNI Testing:

The materials treated with R – 551 paint has been submitted to Uni Testing and the surface finish obtained the values necessary for use on furniture.

Approval:

The panel treated with R – 551 paint are subjected to the tests provided for by the standard UNI 9796 as per the Ministerial Decree dated 06.03.1992 at the C.S.E. of the Ministry of Internal Affairs (Rome Capannelle) and obtained class 1(one) fire – reaction classification and, consequent approval number BL158PVI100004 dated 27.03.1995.

Cleaning of Tools:

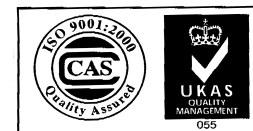
All tools should be cleaned with Wash Thinner or PU Thinner # 105 as soon as possible.

Precautions:

FIRE RETARDANT R - 551 does not contain solvents, nevertheless, good ventilation in working rooms is recommended as well as the use of safety tools and equipment. The mixture, in its liquid state is non – flammable but harmful if swallowed. If contact with eyes occurs, cleanse with fresh water and seek immediate medical advice.

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

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