

RICHWOOD P.U. FINISH CLEAR FOR WOOD (TWO PACK) MATT & GLOSSY

➤ **Scope**

Wood is a beautiful material and is getting scarce. World over, it is a matter of prestige for a human being to possess maximum wooden articles in a home. Therefore, it is a recent trend to preserve the beauty of wood by protecting it against the vagaries of weather and other ruinous elements, where the role of a finishing coat is very important.

The best system is based on polyester but it has a snag. ...drying takes much longer time and in a dusty atmosphere of a country like ours, to get a perfect smooth finish is not possible particularly for a mirror gloss surface. The next best course is to go for a P.U system. There are two distinct products:

- (a) P.U. For interior
- (b) P.U. For exterior

The interior variety has a tendency to turn yellow and has poor gloss retention and weatherability. Hence it is recommended for interior. The exterior variety is non-yellowing and possesses very good gloss retention and outdoor durability. Therefore it is selected for exterior. However, interior P.U. Dries faster than exterior P.U.

Most IMPORTANT feature of RICHWOOD PU system is its liberal content of UV INHIBITOR, which guarantees much longer life of the finish in comparison to normally available PU FINISHES FOR WOOD.

➤ **Areas of Application**

All types of wood, particleboard, plywood, new wood (synthetic) etc. Rich wood P.U. Finish for wood is available in glossy as well as matt varieties. Articles meant for indoors can be coated with interior grade while the articles, which get exposed to sunlight, and rain should use exterior grade. However, exterior grade can also be applied on articles for indoor use.

➤ **Surface Preparation**

Apply two to three coats of richwood P.U sealer. Each coat should be sanded after an interval of three hours till the wood grains are thoroughly filled up and a very smooth surface is obtained. (See technical leaflet on P.U wood sealer.)

➤ **Technical Data**

- Appearance : (a) Clear liquid for glossy base
: (b) Translucent for matt base
: (c) Hardener for both the varieties will appear water white.
- Viscosity : (a) Clear glossy base = 60 ± 5 secs. In ford cup no.4 @ 30°C

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- : (b) Clear matt base = 30 ± 3 secs. In ford cup no.4 @ 30°c
- : (c) Hardener for both= 17 ± 2 secs. In ford cup no.4 @ 30°c
- Mixing ratio : base (3) : hardener (1) by volume.
- Viscosity of the mix : Clear glossy = 30 ± 2 secs. In ford cup no.4 @ 30°c
: Clear matt = 20 ± 2 secs. In ford cup no.4 @ 30°c
- Spraying viscosity : 20 ± 2 secs. In ford cup no.4 @ 30°c
- Thinner to be used : P.U thinner 099 only.
- Touch dry time : 10 minutes
- Thumb impression free : One hour
- Hard dry : Two hours
- Recoatability : Three hours.
- Pot life : Six hours.

Besides following tests were carried out on panels after 48 hours of having applied the coat.

- BOILING WATER RESISTANCE : 3 hours for glossy finish
1 hour for matt finish
- 10% HYDROCHLORIC ACID RESISTANCE : 24 hours for each
- 2% CAUSTIC SODA RESISTANCE : 24 hours
- ALL SPIRITS LIKE WHISKY, RUM, BRANDY, GIN ETC: No effect
- STAIN RESISTANCE : Not affected by mustard or lipstick

➤ Most Important

Lighted cigarettes can be extinguished on coated surface without showing any damage to the film or to its gloss. An even lighted cigarette left on the surface for three minutes does not affect the surface.

➤ Directions for Use

Mix richwood base and hardener in correct ratio and dilute with P.U thinner 099 to get the spraying viscosity. Mix only the necessary quantity, which can be used up before pot life. Apply two to three coats, each at an interval of three hours and cut each coat using the finest sand paper no. 1200. The sanding has to be horizontal to the grains. Wipe out all loose particles, dust etc. By using dry rag pad. The final coat needs no cutting. The glossy version will give mirror finish (wet look) while the matt quality will yield a silky smooth surface.

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➤ **Notes**

Seal the containers after taking out necessary quantity of base and hardener Unsealed containers of hardener will absorb moisture from the air, which will gel the material. Use only P.U thinner 099 because universal/general purpose thinners react adversely with P/U hardener. Keep the spraying area as dust free as possible. Try to keep the atmosphere dry by using hot air circulation fan. Ensure, the compressed air is free from moisture and oil by attaching very good quality of moisture and oil separator. Shelf life is one year

➤ **Disclaimer**

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