

JOINERIES MAINTANENCE MANUAL

Pigmented system

System -1

N.C primer surfacer (grey/white) + N.C pigmented top coat (gloss/matt/semi-gloss)

System -2

2 Pack polyurethane primer + 2 pack polyurethane pigmented top coat (gloss/semi-gloss)

(No filler is necessary in pigmented system)

General guide line:

System	Drying Sanding	Out-door durability	Chemical Solvent resistance	Mechanical resistance	Life	Econom	Finish
N.C	Fastest	4th	4th	3rd	3rd	2nd	4th
N.C+ PU vsh	Solwest	3rd	3rd	4th	2nd	Best	3rd
A.C	3rd	2nd	2nd	2nd	2nd	3rd	Best
2P.PU	2nd	Best	Best	Best	Best	2nd	2nd
Aq Sealer+ Top coat	2nd	2nd	3rd	3rd	2nd	3rd	Best

Application method:

Apply Maxiwood filler by putty knife to fill the indentations/imperfections. Thoroughly sand & remove excess filler. Apply Maxiwood sanding sealer & Maxiwood top coat as advised in the manual.

In case of N.C + PU vsh system, Apply 2-3 coats of PU vsh over properly sanded N.C Sanding sealer.

Likewise follow the manual for application method of pigmented system.

Keep in mind E.M.C (Equilibrium moisture content) is very vital for wood & coatings. Avoid water during sanding.

System for exterior joineries

Clear system (open grain)

System -1

2Pack polyurethane sealer + 2 Pack polyurethane top coat (exterior)

System -2

Single pack Polyurethane varnish thinned to 20 sec viscosity as first coat + Single pack polyurethane varnish as top coat

System -3

Protective stain also is used for exterior purpose. They don't require any over coat.

Pigmented system

2Pack polyurethane primer + 2 Pack polyurethane top coat

Application methods

As mentioned in the manual.

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b) Maintenance of coatings : After selection of coatings as maintained in the previous columns, regular or periodical maintenance is important for life of coating.

Main causes for coating failures are a) Environmental factors - Exposure to strong light (Prolonged exposure to sun light & even strong in door light takes it's toll on finishes), rain , moistures, wind contribute heavily to damage of coating film.

b) Oxidation – It is the second most important cause for degradation of coating. Oxygen combines with almost all the material forming their oxides. The process is usually slow. Oxidation causes darkening & ultimately cracking of most finishes.

c) Physical abuse – Coating films get damaged by mechanical abuse, heat, light, solvent, acids, alkalis etc.

d) Exterior coatings are exposed to termite, fungus, rain, wind to a higher degree than interior varieties.

Certain coatings resist abuse better than others (out lined in the table above)

Prevention is better than cure. It is therefore necessary to take following simple measures to protect the coating as well as wood articles when they are still in good condition.

- 1) Cleaning – Clean the whole coated surface with water mixed with mild detergent soaked in cotton. Avoid detergents containing acids, ammonia or alcohol . This operation removes remains of smog, acid rain, dust that corrode the coating film & reduce protection.
- 2) Regeneration – After cleaning the surface if it is observed that surface is in good condition but the coating film is slightly worn apply with soft brush a thin coat of Maxiwood PU(2 pack) gloss/matt/silk-matt depending. By this action the substrate will look new for a longer period.
- 3) Reset – If the surface is damaged or has small cracks caused by atmospheric influence or accidental damages, it is advisable to take immediate action as follows. Sand the affected area with P320 paper & apply Maxiwood Aqueous filler or N.C filler. Light sand with P320 & apply by brush a thin coat of Maxiwood PU(2 pack) gloss/matt/silk-matt.
- 4) Renewal – When coating film gets thinner, loses smoothness & brilliance it is necessary to perform a renewal operation. To renew clean the surface with water & mild detergent & sand the surface using P 280-320 emery paper. Dust off & clean the surface thoroughly. Apply a layer of PU(2 pack) gloss/matt/silk-matt over the entire area. Allow it to dry for 4 hours & allow a second coat of same. Don't apply coating over sealant.
Following actions (though not directly related to coatings) enhances life of coatings vis a vis wood articles particularly exterior joineries.
- 5) Termite treatment – Periodical treatment of joineries with anti termite chemical
- 6) Roof overhang – It saves coated articles from excessive exposure to sun & rain.
- 7) Caulking – Caulking around windows should be periodically inspected to arrest infiltration of air & water.
- 8) Humidity – Humidity from heating & cooling system can cause damage to coating & wood. Heating system extracts a great deal of moisture from wood & Cooling devises add to the moisture content of wood changing Equilibrium moisture content necessary. Moisture resistant coating (2 Pack polyurethane or Epoxy coatings) would address the problem.