



DECORATIVE
WOODEN POLES

MAINTENANCE GUIDE





MAINTENANCE GUIDE FOR WOODEN POLES

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General conditions of sales and warranty terms can be downloaded from our website at valmontstructures.com

Tehomet wooden poles from Valmont® Structures are engineered to perform to the same standards as steel and aluminum poles. Valmont grants warranty for structure and components in delivered products. Products are warranted for a period of one (1) year from the date of original delivery date. Our wooden poles are calculated and sized with the same lifetime reference of “25 years in compliance with the European Directive of 1985”.

VALMONT PROCESS OF STAIN APPLICATION

- The water based system has been chosen by Valmont because of its efficiency and lower environmental impacts.
- Wood is a natural material and it is expected to expand and shrink as the seasons and moisture change. Our elastic coating is designed to expand and shrink with the wood without cracking.

OUR COATING SYSTEM

- The first layer is a preservative which protects the wood from blue stain fungi, mildew and rot.
- The second layer is then applied to give the wood its final color.
- To receive optimized thickness of varnish, 2 layers of color tinted varnish are applied to protect against UV.

TO ENSURE THE QUALITY OF THE SYSTEM

- A spray gun is used to ensure a consistent coating.
- Drying chamber is applied on each layer to increase the quality of coating system.

A spray gun



Drying chamber



A SCHEDULED MAINTENANCE PROGRAM IS RECOMMENDED TO MAXIMIZE THE LIFETIME OF YOUR WOODEN POLE

UV radiation and humidity are the main reasons for degradation of the surface finish. These two phenomena change the aesthetic of the pole. With no maintenance, the effectiveness of the coating will decrease progressively and make defects in the wood possible.

AGING

1st stage, the aesthetic effects



Gradual loss of the glossiness of the finish can be noticed. Micro-cracks may appear.

2nd stage, the aesthetic effects



Some parts of the pole may begin to lose layers of finish. This may cause some discontinuity in the surface color. Places without stain may become grey. Cracks may appear.

FIRST SIGNS OF AGING

The evolution of the aging depends on the level of sunlight and the alternation between humid and dry periods. For that reason the installation location should be taken into account when choosing the initial color. Shades in the middle of the color range show fewer signs of aging.

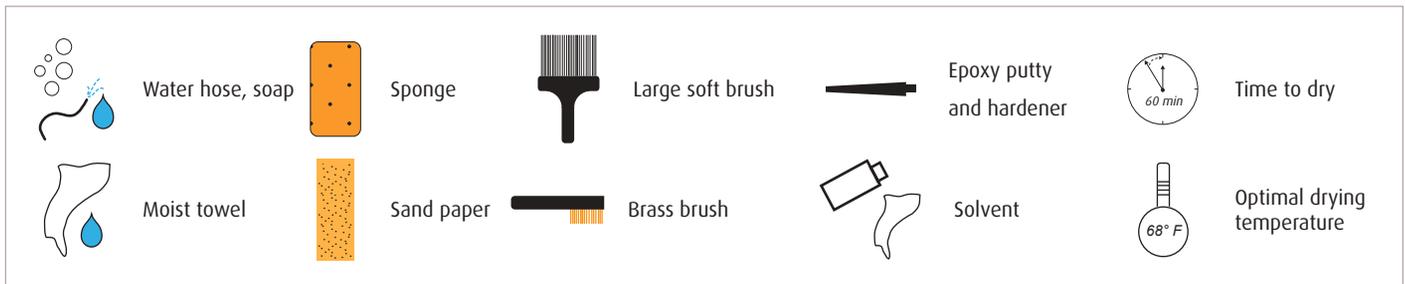
The first stage is running from 3 to 7 years, except on direct sea side, with the sanding effect that damages all the materials, even steel.

RECOMMENDED MAINTENANCE CONDITIONS

- The outside temperature must be above 64°F before refinishing the pole can be performed.
- The surface temperature of the pole should not be greater than 122°F.
- Humidity should be less than 70%.

These are the requirements of our system, you must check with other providers for other systems.

SYMBOL LEGEND



STANDARD COATING REVISION

This process should be performed at the first sign of aging. It enables to maintain the aesthetic of the pole by ensuring the finish is thick enough to protect the wood.

-  Clean the surface from all dust and debris.
-  Use soap if needed. Rinse thoroughly. Let it dry.
-  Apply layer of varnish*. Use large soft brush. Avoid spills and runs of the varnish.

NOTE:
Use only water-based solution:

- * - Aquatop 2920-04 from TEKNOS
- other equivalent system

Cleaning

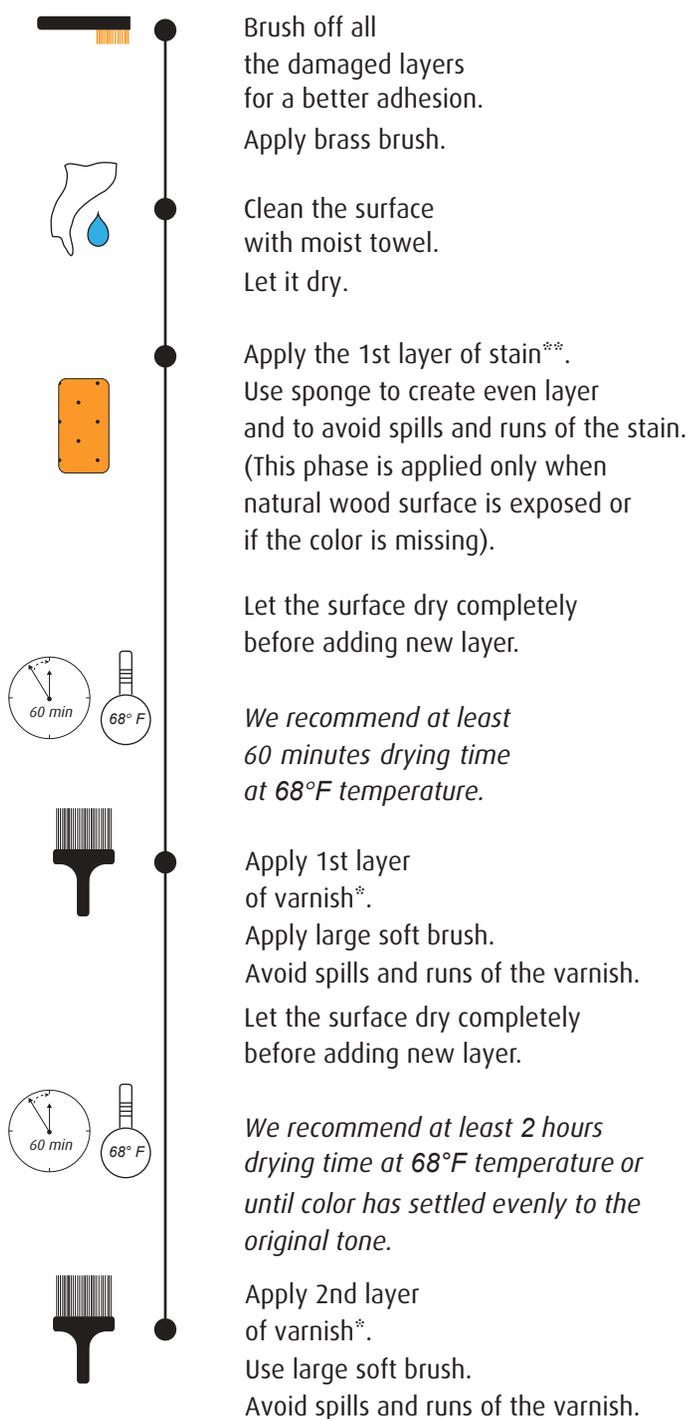


REFINISHING THE POLE

This process is used to refinish the pole when the initial recommended maintenance has not been followed.

At this stage of aging, it may not be possible to fully restore color and fill in micro cracks, by adding new specific layers. Correct thickness of the coating can be restored to protect the wood.

The new layers have the same durability as the original coating from the factory. Maintenance procedures can be performed throughout the life time of the pole.



Brushing



NOTE:

Use only water based solution:

*

- Aquatop 2920-04 from TEKNOS
- other equivalent system

**

- Aqua Primer 2900-02 from TEKNOS
- Pinja Wood Stain from TIKKURILA
- other equivalent system.

VANDALISM CORRECTIONS

GRAFFITI

01



Clean the affected area with a solvent.

If necessary the affected area can be touched with colored varnish*
Avoid spills and runs of the varnish.

02

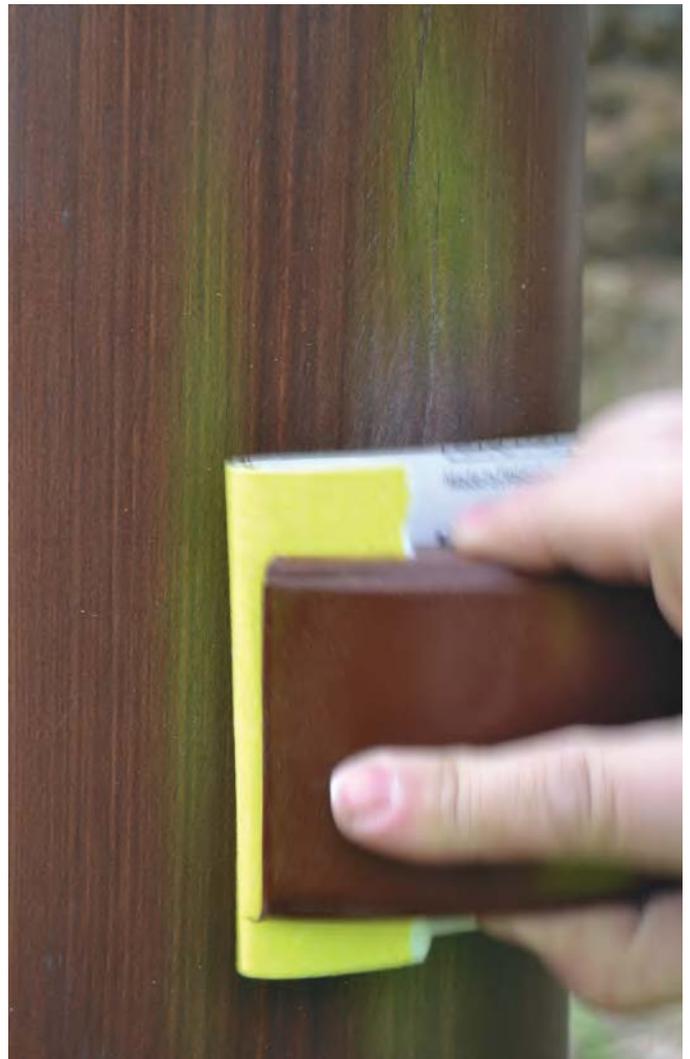


If the solvent is not effective, graffiti can be removed with sandpaper.



If the base color of the pole remains after the graffiti is removed, reapply the colored varnish* to complete the repair.
Avoid spills and runs of the varnish.

Sanding



NOTE:

Use only water based solution:

*

- Aquatop 2920-04 from TEKNOS
- other equivalent system

**

- Aqua Primer 2900-02 from TEKNOS
- Pinja Wood Stain from TIKKURILA
- other equivalent system.

VANDALISM CORRECTIONS

GRAFFITI

03

If the base color is removed it will need to be reapplied:



Brush off all the damaged layers for a better adhesion. Apply brass brush.

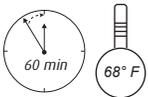


Clean the surface with moist towel. Let it dry.



Apply the 1st layer of stain**. Use sponge to create even layer and to avoid spills and runs of the stain. (This phase is applied only when natural wood surface is exposed or if the color is missing).

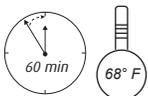
Let the surface dry completely before adding new layer.



We recommend at least 60 minutes drying time at 68°F temperature.



Apply 1st layer of varnish*. Apply large soft brush. Avoid spills and runs of the varnish. Let the surface dry completely before adding new layer.



We recommend at least 2 hours drying time at 68°F temperature or until color has settled evenly to the original tone.



Apply 2nd layer of varnish*. Apply large soft brush. Avoid spills and runs of the varnish.

Applying varnish



NOTE:
Use only water based solution:

*
- Aquatop 2920-04 from TEKNOS
- other equivalent system

**
- Aqua Primer 2900-02 from TEKNOS
- Pinja Wood Stain from TIKKURILA
- other equivalent system.

VANDALISM CORRECTIONS

NICKS AND CUTS



- For small nicks in the surface, a color layer ** can be applied locally to restore the surface. The age of the pole affects on color contrast and end result.

STOLEN DOORS

- Replacement is possible.
- Communicate the order references concerning the door opening sizes and positioning of the door with a local Valmont® sales office.



DEEP CUTS OR GOUGES

- Mix epoxy putty and hardener (ratio 5:1) and fill the hole.
- After the putty has cured, sand it smooth.
- Once sanded, the base color ** of the pole can be reapplied, if needed.
- Repeat if needed
- See section **REFINISHING THE POLE**



POSTERS AND STICKERS

- Try to remove the sticker or poster with warm water or water hose.
- Alcohol can be used to remove any residual glue or adhesive.
- Once dry, if you notice any difference in gloss of the stain, locally apply one layer of translucent coat (see section Refinishing the Pole).

NOTE:
Use only water based solution:

- - Aquatop 2920-04 from TEKNOS
- - other equivalent system

- - Aqua Primer 2900-02 from TEKNOS
- - Pinja Wood Stain from TIKKURILA
- - other equivalent system.

Applying epoxy



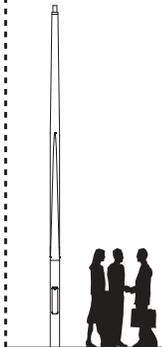
COLOR MATCHING

To allow a perfect continuity with existing wood poles, it is possible to measure the color composition of material already installed. Measurement is done with a specific portable device (CIE-LAB color space).

The results obtained enable our stain supplier to produce a new stain with the matching color.

POSSIBILITIES TO MEASURE THIS COLOR COMPOSITION

- From a sample sent to our plant.
- On site, on installed pole / furniture. Visit by Valmont® - trained specialist.



valmont 

Color measurement



PALLAS

INARI

RUKA

KOLI

LEMPEA

SWALLOW

GULL

TIKKA

MERGANSER

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STRUCTURES

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