How To Use Permalac

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Intended uses:
Permalac is a fast drying, easy to apply acrylic lacquer coating. Permalac is highly resistant to environmental breakdown caused by UV, acid rain, and salt. It has outstanding adhesion to a variety of substrates, including patinated and polished metals, hard woods, and masonry or stone products. Users report excellent results on copper, brass, bronze, steel, aluminum, zinc, and painted wood substrates.

The following instructions can be applied to all sheens of Permalac, Permalac EF, Permalac Black, and Permalac EF Black.

Determine your method of application: This decision should be made based on your own experience and skill level, as well as the size and nature of the job. If the Permalac must be applied on location, it might be best to apply with a brush in order avoid overspray. Small parts and jewelry might be best dipped. You might wish to spray a large project for speed and ease of application.

Regardless of your application method, it's important that your substrate is clean and free of moisture. We recommend that you wipe non porous substrates with acetone or lacquer thinner to degrease and assist in wetting. If your substrate has been cleaned with soap and water, a heat treatment may be needed to fully dry the piece before application.

Spraying Permalac: When spraying Permalac, you first need to thin it. This can be done with most commercially available lacquer thinners. Peacock also manufactures a complete suite of thinners to suite varying weather conditions and customer preferences. First spray a single coat with a mix of 50% Permalac and 50% thinner. Thinning the Permalac this way allows it fully penetrate the surface and seal to the metal. Let dry for one hour and apply another coat of Permalac, for this coat use a mix of 80% Permalac and 20% thinner. Wait thirty minutes and apply a final coat with the same ratio as the second. You should be applying enough material that the surface appears wet during application. This will give sufficient build for protecting the surface and allow the material sufficient flow time to run smooth. Your work will be touch dry within 20 minutes, however you should give it at least 24 hours before packing or putting it into heavy use. Should you wish, or if you are working with a porous substrate, you may apply more coats of Permalac. Additional coats will extend the curing time. Be sure to follow all the safety guidelines outlined in the SDS sheet. This includes using a NAIC approved organic solvent respirator, goggles, and using in a ventilated area.

The recommended spray gun is an HPLV sprayer with a 1 or 1.2 ml tip. Use 15-20 psi and adjust the gun so the material is fully atomized, you want to avoid large droplets in your spray. When spraying, you want to be laying enough coating that the surface appears wet and the droplets flow together.

Brushing Permalac: Permalac can be brushed on at full concentration. During hot weather you may wish to thin the Permalac by 15% to help flow out brush marks. Use a good quality solvent grade brush and do not overwork. Apply three coats, waiting one hour between coats. Allow it to cure for 24 hours. Clean up with acetone.

Maintaining/Cleaning Permalac: Wash Permalac with soap, water and a soft sponge or rag. Do not use abrasive cleaners or scouring pads. Do not use solvents, such as mineral spirits or acetone. Scratches can be repaired by cleaning the damaged area with soap and water, allowing it to fully dry, and reapplying Permalac. Should you need to remove the Permalac, it can be stripped with lacquer thinner or acetone.

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