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Sanding Sealer Technical Data Sheet

Contents:

CrystaLac® 's Company History

CrystaLac® Waterborne Products Description

CrystaLac® Sanding Sealer Information

Sanding Sealer Application Chart

Sanding Sealer® Product Use Guide

Product Application

Preparation for Use of CrystaLac® Sanding Sealer

Clean-Up Information

CrystaLac®'s Company History

In 1989 CrystaLac® waterborne finishing products enjoyed immediate success as a waterborne product. As far back as 1995 CrystaLac® received top ratings above 35 other waterborne products in a comparison study, and still continues to stay on top. Offering a full range of wood, metal, and custom waterborne coatings, CrystaLac® rapidly found its way into finishing shops and homes across the United States. CrystaLac® quickly became identified by its ease of use, optical clarity and its tough protective qualities. Today, CrystaLac® can now be found worldwide.

What is CrystaLac®?

CRYSTALAC® Waterborne Finishing Products are highly developed pure grade "acrylothane™" resins. Ongoing research and formulation insure that all CrystaLac® users will always have the latest waterborne technology available.

CRYSTALAC® Waterborne Finishing Products are a safe alternative that can be used in place of nitrocellulose lacquer, oil-based polyurethane, or varnishes. CrystaLac® is great on most anything that demands a quality protective finish. It is specialized for use on wood, but can be used on metal, laminates, ceramic or other selected surfaces.

CRYSTALAC® Waterborne Finishing Products are designed to be HVLP spray compatible as well as applied with traditional conventional spray applications.

CRYSTALAC® SANDING SEALER

CrystaLac® Sanding Sealer penetrates and seals wood grain fibers for easy sanding. It can save both the time and energy of repeated sanding of your topcoat. It enhances and warms the grain giving the look of natural wood. It is a fast drying and bonding undercoat. Sanding Sealer can be used on bare wood or over a previously finished surface.

Basic Guide Chart:

| | |
|-------------------|---|
| Product Details: | CrystaLac Sanding Sealer |
| Sheens: | N/A |
| Application Tool: | Bristle brush, Foam Brush, Wipe on or Spray |
| Location: | Interior/exterior wood surfaces |
| Recoat: | 1 to 2 hours |
| Dry Time: | 1 to 2 hours |
| Cleanup: | Water |
| Coverage: | 120-150 sq. ft. per quart |
| Coats: | 1 to 3 coats are recommended. |
| Recommended Uses: | Furniture, Floors, Woodwork, Doors, Cabinets, Accessories |

CRYSTALAC SANDING SEALER USER GUIDE

CrystaLac® Sanding Sealer is carefully formulated to provide the professional and beginning finisher ease of use and an excellent quality finish. Before using CrystaLac® Sanding Sealer, it is important to read the General Product Use Guide and be totally familiar with the character of CrystaLac® Sanding Sealer and the use of waterborne finishes to achieve the best possible results. DO NOT use tack cloths or steared sandpaper.

PREPARATION of CRYSTALAC® SANDING SEALER

Stir Sanding Sealer thoroughly to ensure that any settled particles mix throughout the coating. DO NOT SHAKE. You may want to filter the coating before use. Use a paper cone filter or a “nylon” filter to strain. In most instances CrystaLac® Sanding Sealer can be sprayed straight from the can. If you use any CrystaLac® additives (Reducer, Retarder) be sure to mix THOROUGHLY through the coating. This will ensure that the additive will have its proper affect upon the coating. DO NOT store CrystaLac® finishing products below 60°F. Avoid freezing.

WOOD PREPARATION:

Careful sanding and preparation of your project will help ensure a good quality finish. Recommended sanding grade is 220 -600. The finer grades of sandpaper will help keep wood grain tight and minimize grain raising.

CAUTION: USE OF COATED OR STEARATED SANDPAPERS can leave residue on the surface. This can cause the coating not to bond properly to the surface. This would be evident if the coating suddenly separated into a series of small clear crater like circles (sometimes called fish eye). Lack of adhesion can also occur if any oils or silicones are left on the surface to be coated. AVOID using steel wool or tack rags, as these sometimes contain lubricants and silicones. Avoid any material that might contaminate the surface. If you suspect a problem clean the surface before re-spraying, with CrystaLac® Surface Conditioner, or a 50/50 blend of denatured alcohol and water. In addition, spraying on cold wood may cause the coating to perform erratically. Be sure that the wood and the coating to be applied are at normal room temperature.

FINISHING AREA and ENVIROMENT:

It is important to provide a clean, ventilated, stable temperature environment in which to apply CrystaLac® Sanding Sealer. CrystaLac® Sanding Sealer is self-leveling and dries rapidly. Hard cure will occur best at an average temperature of 70° F with a gentle circulation of moving air. This will aid in rapid surface evaporation of water and minimize grain raising. Extremes should be avoided. Using below 60° F or above 90°F can affect the performance of the finish coat. After the coating is dry to touch, it will take airtime to cure and harden. The temperature should remain constant through this time period.

USE OVER OTHER FINISHES

CrystaLac® Sanding sealer can be successfully applied over oil-based stains, previously coated surfaces with lacquer, urethanes, shellacs, varnishes etc. It is critical that the surface to which CrystaLac® Sanding Sealer is applied be free of oil, wax, dust, and polish. Newly applied oil-based stains and solvent finishes must be thoroughly dry, and solvents totally evaporated (gassed off) for proper bonding and adhesion to occur. Premature application will result in bubbling, foaming, and non-adhesion of CrystaLac® Sanding sealer to the surface. When applying CrystaLac® Sanding Sealer over a surface that has had paint remover applied, be sure that the surface has been thoroughly cleaned, and no waxy residue remains on the surface or in the wood grain. It is advisable to test for proper adhesion over all oil-based stains, non-waterborne coatings or stripped surfaces before continuing with the entire job.

PRODUCTION APPLICATION:

Apply with a brush, conventional sprayer or the HVLP turbine sprayers. Three stage HVLP turbines or HVLP conversion spray guns will offer optimum performance. Avoid the extreme of either too fine a mist or flooding of material. Apply a light wet film and you're done (1 to 2 Mils). The most common error when spraying waterborne coatings is applying a thick wet coat. A little practice and experience will help you achieve the right technique and best results. Always spay horizontal surfaces holding your spray gun on a slight angle away from you. Begin close and work away from you to avoid over spraying the work you just finished. Remember this material is a mechanical bond. It does not re-melt the previous coat. If necessary, sand between coats with 320 grit or finer for sealer/topcoats. Clean sanded surfaces by blowing off or vacuuming any dust and using a (water) damp cloth. If you are concerned about possible contaminates on the surface, wipe surface with CrystaLac® Surface Conditioner.

SPRAY FINISHING APPLICATION:

A HLVP system and a 1 mm to a 2mm tip and needle will usually provide the most excellent results. If using conventional compression air systems, a fine lacquer tip is suggested at pressures of 40-45psi. HLVP Air Conversion spray guns will usually atomize CrystaLac® Sanding Sealer with 4.5-5.0 psi air cap pressure. Adjust if necessary. Since airless sprayers are not usually used for fine finishing, we suggest you test spray samples before committing to the job. This applies to assisted airless spray equipment.

HOW MANY COATS SHOULD BE APPLIED?

Usually 1 to 3 coats will provide excellent pore and grain bonding along with grain accent. You can sand with 320 - 400 paper between coats if necessary. For a heavier appearing finish and to add to the grain accent, (more than four coats), allow additional time between each application (at least a few hours or more). This will permit internal additives to evaporate and not become trapped by the multiple coats. This will ensure proper curing, hardening and print resistance.

RE-COATING

When applied properly, CrystaLac® Sanding Sealer will usually be dry to touch in 30 to 45 minutes. Extremely wet applications (which should be avoided) will take slightly longer. Under normal conditions 1 to 2 hours should be sufficient to sand (if necessary) and re-coat when desired. Re-coating too soon can sometimes cause an orange peel effect and may extend the final cure time of the product. BE PATIENT!!!! Wait at least 1 to 2 hours before applying the next coat. NOTE: Cold or wet days may extend dry time. CrystaLac® Sanding sealer can be dried in the sun, however, do not apply additional coats on a hot surface.

CLEAN-UP

When cleaning spray guns, wash and rinse spray gun with warm water. It is sometimes possible to hold your spray gun under a running faucet letting warm water flow through the material pick-up tube while pulling back the trigger permitting the water to float through the spray jet to flush out any of the remaining coating. If waterborne coating dries on any of the spray equipment it will need to be softened and soaked with CrystaLac® Organic Spray Gun Cleaner, then brushed and thoroughly rinsed off. Use appropriate cautions using any solvent based products to clean spray guns as they are hazardous materials. Additionally, the use and storage of many solvents is restricted or prohibited in some locations. Check local codes before use of solvent based products.

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