



Simo Tritan Finish- Specifications and Overview 2009

1.0 Tritan Finishing System- Overview

- Fully enclosed finishing system.
- Automated finishing line with full UV cure.
- Water based products only- no solvent based materials.
- Hessemann overhead sanding.
- M.O.S Microwave Dryer (Microwave Operating System)
- Jet Dry Air Tunnel
- Cold Cure UV (Ultra Violet) Top and Bottom Curing System

2.0 Tritan and the Environment

- Full water base finish (stain and lacquer)
- No solvents or toxins
- Meets or exceeds BIFMA x7.1 emission standard (LEED CI-EQ 4.5 Credit)
- Formaldehyde Free (0%)
- Enclosed system- minimum 90% recapture, materials are recycled, re-used and 0% air-borne particles are released into the environment.

3.0 Tritan Process and Finish

As a minimum, all exposed and semi-exposed solid wood and veneer surfaces are finished with the following process:

- Whitewood sanding- two passes @ 150/180
- All sanding inspected and signed off for quality control
- One coat of hand wiped water base stain
- Minimum one hour dry time
- One coat of self sealing water based lacquer- applied via enclosed finishing system including: microwave dry, jet dry hot air tunnel and then cold cure UV light.
- Seal Sanding- dual sanding @ 400/400
- Finish coat of water based lacquer- applied via enclosed finishing system including: microwave dry, jet dry hot air tunnel and then cold cure UV light.

3.1 All products are visually inspected for consistency in: clarity (water clear), colour and sheen/ gloss level. All finishes are checked and validated against master samples to ensure compliance to acceptable finish guidelines. Inspection process may include:

- Visual inspection & comparison to Master Control Samples
- Sheen meter
- Multi Spectrum Light Booth (colour & shade)
- X-Rite Spectrophotometer (colour, tone and shade)

3.2 Final finish product is UV cured, product is fully cured from the line resulting in a resilient finish (no wait time for cure) and no off-gassing or odours at install.

3.3 Exposed wood surfaces are enhanced due to water clear finish that improves colour, clarity and sheen. Finish as a minimum shall consist of at least the process outlined in 3.0 and the final product will be suitable for everyday commercial usage.



4.0 Specifications

Detailed specifications are outlined per documents- 620-C020-383 & 975-F020-55A, MSDS (we can provide these detailed spec sheets if required) .

Overview of finish and adhesive specification details:

- Formaldehyde Free (0%)
- Water base stain (Akzo Nobel 620-C020-383 w/b wiping stain base or approved equivalent)
- Water base lacquer (Akzo Nobel 975-F020-55A- w/b UV or approved equivalent)
- Water base adhesive (Tribond X -4057-W-300 or approved equivalent)
- Sheen/ Gloss level of 40-43%
- Rule 66- Stain- Pass
- Rule 66- Lacquer- Exempt (Yes)
- Meets or exceeds BIFMA x7.1 Emission Standards for finishes (for LEED CI- EQ-4.5 Credit)

5.0 Summary

The Simo Tritan Water-based UV finishing system utilizes industry leading technology to provide a resilient user friendly finish that is environmentally responsible for our facility, supply chain and end users. Through the use of our Tritan finish system Simo has:

- Reduced our gas & electricity consumption by almost 50% (compared to previously used solvent based manual spray)
- Reduced our VOC emissions by more than 20 tonnes per year
- Received 0% negative feedback regarding the durability or smell of our finished goods

Our products are beautifully crafted with a water clear finish that enhances the inherent beauty of the wood, is both resilient and durable for commercial use and is considered industry leading throughout North America.