



PEDESTRIAN 2.0 UV-Cured Finish Product Data Sheet / Stain Resistance Chart

Finishing Process:

Multiple coats of UV-cured urethane are applied to the sanded surface of Nydree Acrylic Infused Hardwood Flooring to give a tough, scratch resistant, abrasion resistant, stain resistant, and moisture resistant finish that is easy to maintain.

The urethane is cured instantly by exposing the coating to ultraviolet light (UV). This process is much quicker and more environmentally friendly than using solvent containing resins and heating ovens.

Ceramic particles are suspended within the UV-cured urethane to dramatically increase the abrasion resistance and scratch resistance of the resulting finish.

No Benzophenone photoinitiator is used to cure the finish. This chemical is being removed from UV-cured finishes in Europe due to the emissions it causes in the cured film. Benzophenone is listed on California's Prop 65 chemical list (chemicals known to the state to cause cancer)

Physical Properties:

Base Resin: 100% Solids UV-Cured Urethane.

Coating Thickness: Approximately 5 mils.

Suspended Minerals: The finish contains Ceramic particles made up of modified Aluminum Oxide (Only Diamond is more abrasion resistant).

Coating VOC's (Volatile Organic Compounds): Flooring is 3rd party, Floorscore certified.

Stain Resistance: See 2nd page of this document.

Gloss (ASTM-D523): 60 Degree Meter, 15 gloss units on all Nydree Acrylic Infused Flooring with the exception of Txture and Handcrafted which is 5-10.

S-42 Taber Abrasion (Modified EN13329): *500 gram weights with 180 grit paper changed every 200 cycles*
Initial Wear Point: >4000 cycles (avg.)
Abrasion Class = AC4

Note: As there is no standard published hardwood floor coating specification for Taber abrasion, Nydree opted to test abrasion resistance per a known laminate flooring specification. The laminate flooring industry uses a European specification, EN 13329 that has ratings based upon cycle count to a specific initial point (IP) of finish wear. The standard was modified where the first layer of finish (colored stain or clear stain) equals the laminate print and the laminate sublayer equals the wood surface. Essentially Nydree tested the number of cycles it takes to wear through the finish down to the stained surface or wood surface.

Nydree used the ratings as a basis for comparison similar to that used by the laminate flooring industry. Ratings go from moderate residential (AC1 \geq 900 cycles) to heavy commercial (AC5 \geq 6000 cycles). All testing was performed by an independent laboratory.

Mar / Microscratch (EN16094 Method A & B): Method A – Gloss Change Test. After a predetermined number of cycles using a Scotch-Brite 7447 pad the change in gloss is measured. Nydree finish only had a 0.7% increase in gloss. Method B – Microscratch resistance – After a predetermined number of cycles of abrading with a Scotch-Brite 7440 pad the scratch pattern is evaluated. The Nydree finish received a result of B1 (No visual scratches).

Slip Resistance Value (ASTM F1679/Dynamic): 0.73 'Dry' using English XL Tribometer.

Limited Finish Warranty: Wear Through: Commercial: 10 years.
Residential: 50 years.

Recoatibility: The Bona Prep® system is recommended. System is Greenguard Certified.

Maintenance: Nydree Natural Multi-Surface Cleaner and Nydree Dust Mop Treatment.

PEDESTRIAN 2.0 UV-Cured Finish Stain Resistance Chart

To develop this chart, many common reagents were applied to the Nydree Finish. After four hours the flooring was cleaned with Nydree Natural Multi-Surface Cleaner. Results are given as to whether or not the stain was removed.

<u>Reagent</u>	<u>Result</u>
<i>Refrigerator Reagents</i>	
Beet Juice	No Stain
Coffee (Hot)	No Stain
Coke	No Stain
Grape Juice	No Stain
Grape Kool-Aid	No Stain
Ketchup	No Stain
Lemon Juice	No Stain
Lime Juice	No Stain
Malt Vinegar	No Stain
Mustard	Light Yellow Stain – Slowly disappears over time.
Pickle Juice	No Stain
Red Wine	No Stain
White Vinegar	No Stain
<i>Solvents</i>	
Acetone	No Stain
Denatured Alcohol	No Stain
Ethylene Glycol	No Stain
Gasoline	No Stain
Isopropyl Alcohol	No Stain
Kerosene	No Stain
Mineral Spirits	No Stain
Toluene	No Stain
Turpentine	No Stain
Xylene	No Stain
<i>Medical Reagents</i>	
Ammonia	No Stain
Betadine Solution	No Stain
Bleach	No Stain
Hydrogen Peroxide	No Stain
Iodine Tincture 2%	Dark Yellow Stain
Mercurochrome Antiseptic	No Stain
Merthiolate Tincture	Light Pink Stain
3M Neutral Quat Disinfectant (0.5 oz./gallon)	No Stain
3M HB Quat Disinfectant –(0.35 oz./gallon)	No Stain
<i>Miscellaneous</i>	
Automatic Transmission Fluid	No Stain
Ball Point Ink	Removed with Nail Polish Remover
Black Jack Roof Cement	Removed with Nail Polish Remover
Kiwi Black Shoe Polish	Removed with Nail Polish Remover
Lip Stick	No Stain
Motor Oil	No Stain
Pencil	No Stain
Permanent Marker	Removed with Nail Polish Remover
Pet Urine	No Stain
Rit Black Dye	No Stain
Revlon 4N Medium Brown (50/50 Color & Developer)	Dark Brown Stain

The nail polish remover used was non-acetone (ethyl acetate, alcohol).

(Page 2 of 2)