

Finishing Process:

Multiple coats of UV-cured aluminum oxide containing urethane are applied to the sanded surface of Nydree Acrylic Impregnated 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.

Aluminum Oxide particles are suspended in the urethane to dramatically increase the abrasion resistance and scratch resistance of the resulting Pedestrian finish.

Physical Properties:

**Base Resin:** 100% Solids UV-Cured Urethane.

**Suspended Minerals:** Aluminum Oxide (Only Diamond is more abrasion resistant).

**Coating Thickness:** 2.9 – 3.1 mils. This is accomplished with 7 roll coaters.

**Coating Make-up:** Stain (Clear or colored), Backfiller, Aluminum Oxide Sealer (x2), Sanding Sealer (x2) and Nano Aluminum Oxide Topcoat.

**Coating VOC's (Volatile Organic Compounds):** Negligible.

**Stain Resistance:** See 2<sup>nd</sup> page of this document.

**Gloss (ASTM-D523):** 60 Degree Meter, 15-20 gloss units on all Nydree Flooring.

**S-42 Taber Abrasion (Based on ASTM-D4060):** Initial Wear Through: >1000 cycles.  
*500 gram weights with 180 grit paper changed every 500 cycles.*

**Limited Pedestrian Finish Warranty:** Wear Through: Commercial: 3 years.  
Residential: 35 years.

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

**Maintenance:** Bona Pro Series Hardwood Floor Cleaner (Greenguard Certified) and Nydree Dust Mop Treatment.

## Pedestrian™ UV-Cured Aluminum Oxide Finish Stain Resistance Chart

To develop this chart, many common reagents were applied to the Pedestrian Finish. After four hours the flooring was cleaned with Bona Pro Series Hardwood Floor 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).

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