**Liquid NanoTint® Liquids**

**Cleaner**
Unique preparation cleans and micro-grinds glass for special nanocoating primer

**Primer**
Bonds tightly to glass at molecular level to create ideal surface for NanoTint finish

**Finish Part A**
Patented technology evenly delivers nanoparticles to glass surface

**Hardener Part B**
Reacts with Part A to ensure a strong bond to glass with a hard finish

**Liquid NanoTint® Tools**

**Microfiber Cloth**
Best in class fabric for application and removal of Cleaner

**Mixing Cups**
New, clean, solvent-resistant mixing cups to measure/mix Liquid NanoTint finish.

**Mixing Paddle**
Stainless steel mixing paddle cleans easily to prevent contamination

**6” Roller Frame**
Wire frame chassis is smaller in diameter, requiring less material to load

**Specialized Roller Cover**
Proven to apply water-thin material evenly to glass surfaces

**Roller Trays**
New, clean, solvent-resistant trays to apply Liquid NanoTint primer and finish
Recommended Tools

**Portable Digital Scale - .01 - 500 gr**
Weigh material for mixing to ensure proper application thickness

**UV/IR Rejection Detector + Visible Light Transmission (VLT) Meter**
Capture glass performance - use pre and post-application. Available on aliexpress

**TempStick**
Capture environmental data over time - use pre and post application

**UVAIRX**
Unique technology removes odors and VOC’s without creating ozone Available through Drywired

**Denatured Alcohol or Isopropyl Alcohol**
Immediate cleanup of tools, spatters, spills etc.

**Respirator w/ ABEK (3M 6059) Cartridges**
Protect installer from fumes while working with product

**3M 2090 Masking Tape – 1 1/2” - 2”**
For inside edge of glass to prevent contamination from sealants

**Spray Bottle with Water**
Wet glass before Cleaner / Spray after - water will 'sheet' when surface is clean

**Ladders/Scaffold**
Ready access to all glass on project

**BTU Unit**
Capture glass performance - use pre and post-application.

**IR & UV Meters**
Capture glass performance - use pre and post-application.

**Aluminum Foil**
Disposable foil for tray

**Table w/ waste can**
Ready access to mixing table and metal disposal can with lid

**Safety Goggles**
Protect installer from material splatter

**4” Glass Scrapper**
To remove paint and other hard contaminants on glass

**Measuring Tape**
Used to measure window dimensions
# Kit Configurations

<table>
<thead>
<tr>
<th></th>
<th>NanoTint Kit</th>
<th>Sample Kit 40 sq ft</th>
<th>Starter Kit 375 sq ft</th>
<th>Pro Kit 375 sq ft</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Liquids</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass Cleaner</td>
<td></td>
<td>45 grams</td>
<td>450 grams</td>
<td>450 grams</td>
</tr>
<tr>
<td>Primer</td>
<td></td>
<td>80 grams</td>
<td>32 oz</td>
<td>32 oz</td>
</tr>
<tr>
<td>Finish Part A</td>
<td></td>
<td>117 grams</td>
<td>900 grams</td>
<td>900 grams</td>
</tr>
<tr>
<td>Hardener Part B</td>
<td></td>
<td>13 grams</td>
<td>110 grams</td>
<td>110 grams</td>
</tr>
<tr>
<td><strong>Tools</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixing Container</td>
<td>2 ea - 8 oz (250mL)</td>
<td>6 ea - 8 oz (250mL)</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Mixing Paddle</td>
<td>1 ea</td>
<td>1 ea</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Specialized Roller Cover</td>
<td>2 ea</td>
<td>4 ea</td>
<td>4 ea</td>
<td></td>
</tr>
<tr>
<td>6” Roller Handle</td>
<td>1 ea</td>
<td>1 ea</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>7” Roller Tray</td>
<td>1 ea</td>
<td>1 ea</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Squeegee</td>
<td>1 ea</td>
<td>1 ea</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Microfiber Cloth</td>
<td>2 ea</td>
<td>3 ea</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Collateral</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instructions</td>
<td>1 set</td>
<td>1 set</td>
<td>1 set</td>
<td></td>
</tr>
<tr>
<td>SDS’s</td>
<td>1 set</td>
<td>1 set</td>
<td>1 set</td>
<td></td>
</tr>
</tbody>
</table>
Prepare For Application

Calculate Square Feet
- Measure each glass panel separately - measure in inches
- Sq. Ft. = Length X width, then divide by 144
- Add together sq. ft. of all panels to determine material needed

Evaluate Surfaces and Environment
- Identify scratches, trapped moisture, exterior debris, etc. - NanoTint cannot repair
  - Make notes, take pictures, explain to client
- Use auto data logger, such as Kestrel Drop D2, for at least 1 week to identify baseline temperatures - also compare after application to prove effectiveness

Determine Liquid, Tool and Labor Requirements

<table>
<thead>
<tr>
<th>Liquid NanoTint System</th>
<th>System Tools</th>
<th>Other Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass Cleaner: 9.6 sq ft / 10 gr</td>
<td>Microfiber</td>
<td>Safety equipment</td>
</tr>
<tr>
<td>Primer: 5.1 sq ft / 10 gr</td>
<td>Mix cups</td>
<td>Masking tape</td>
</tr>
<tr>
<td>Finish A + B: 4.3 sq ft = 9 grams of ‘A’ + 1 gram of ‘B’</td>
<td>Mix paddle</td>
<td>Spray bottle</td>
</tr>
<tr>
<td></td>
<td>Roller frame</td>
<td>Table/waste can</td>
</tr>
<tr>
<td></td>
<td>Roller covers</td>
<td>Alcohol (cleanup)</td>
</tr>
<tr>
<td></td>
<td>Trays/liners</td>
<td>Ladders/Scaffold</td>
</tr>
</tbody>
</table>

Schedule Install
- In teams of 2
- When space is vacated during application +12 hours
- When conditions are appropriate for application +2 hours*
  - 45° - 90° F Air and surface temperatures
  - < 70% Relative humidity
  - No direct sunlight
*Use automatic data logger, such as Kestrel Drop D2, at least 1 week in advance to identify proper conditions - also to compare data after application to prove effectiveness
**At Time Of Application**

**Step 1: Prep**
- Ensure no ignition sources in work area
  - Any equipment must be explosion-proof
- Avoid electrostatic build-up
  - Increase humidity, spray carpets with anti-static treatment
- Control Air Movement
  - Turn off heat and air conditioners
  - Point fans away from project to draw odors out of the vicinity
- Remove All Contamination

**REMOVAL OF CONTAMINATION IS MOST IMPORTANT STEP**
- Completely remove previous solar film
- Use glass scraper to remove contaminants, wipe frames with alcohol, vacuum floor, etc.
- Setup mixing table, waste can, liquids and tools

**Step 2: Clean**
- Spray water mist on glass to be treated
- Use Microfiber sheet or buffer to apply NanoTint Glass Cleaner

**Cleaner Applied @ 0.96 sq. ft. per gram**
- Divide project sq ft by 0.96 = grams required
- Continue water mist as necessary to maintain watery-smooth paste
- Work paste in firm, circular motion to clean glass thoroughly
  - Special effort required in corners, at edges, and on older glass
- When glass is clean, remove remaining paste with clean cloth or buffer
- Confirm glass is clean with a light mist of water across entire surface
  - Water will ‘sheet’ unbroken when clean
  - If ‘sheeting’ is diverted, continue to clean that area until water no longer diverts

**Step 3: Mask**
- Mask all surfaces which need to be protected - NanoTint will stain surfaces
- Mask edges 1/8” - 1/4” to prevent contamination from glass sealant

**Step 4: Primer**
- Prepare New Tray:
  - Add enough primer to cover one glass panel @ 0.51 sq. ft per gram
  - Pour only what can be applied in 3-5 minutes
  - Team member adds more primer to tray as necessary
- Steadily apply primer with microfiber cloth in thin, even coat
- Work from top to bottom, overlap 20%
- Let dry approximately 2 minutes
- Repeat application until material for desired panels is completely applied
Step 5: Finish

- Make sure glass is dry and free of contaminants
- Assemble new roller cover and frame. Remove stray lint with masking tape
- Confirm sq. ft. of panels to be coated within next hour
- Prepare mixture immediately before use
  - **9:1 Mix Ratio by Weight**
  - Refer to page 9 for Mixing Ratio Chart
- **Finish Applied @ 0.43 sq ft per gram**
  - Divide project sq ft by 0.43 = grams required
    - 10 gr = 4.3 sq ft
    - 50 gr = 21.5 sq ft
    - 100 gr = 43.0 sq ft
  - Prepare New Mixing Cup - Finish Part A:
    - Multiply grams required by 0.9 = Total Finish Part A
  - Add Hardener Part B:
    - Multiply grams required by 0.1 = Total Hardener Part B
    - Slowly pour Hardener Part B to Part A mixing cup and steadily stir until uniform

  **Keep solution covered at all times to slow cure and prevent evaporation**

- Prepare New Roller Tray:
  - Add enough coating to finish one panel @ 0.43 sq ft per gram
  - Add 30 grams to account for roller retention per each roller
  - Pour only what can be applied in 3-5 minutes
    - Team member adds more as necessary
    - Do not use noticeably thick solution
    - Do not use coating prepared more than 2 hours prior to application

Step 6: Application

- **To Ensure A No Line - No Streak Finish**
  - Cover entire panel quickly
  - Smooth drips immediately
  - Maintain wet edge
  - Ensure all material poured in tray is used for application
  - Avoid sliding roller

- **Dry and Cure Times**
  - After 15 minutes – Remove masking tape
  - After 2 hours – Dry to touch - turn heat or air conditioning back on
  - After 24 hours - Odor should be full dissipated
  - After 14 days - Full cure - clean with mild household cleaners or soap, water and squeegee
**Cleanup & Storage**

- Clean drips, spills and tools immediately with Denatured Alcohol
- Properly dispose of all waste according to local, federal and national regulations
- Ensure proper storage of unused liquids per Safety Data Sheet
### Liquid NanoTint 2.0

<table>
<thead>
<tr>
<th>Hardener Part B (g)</th>
<th>Finish Part A (g)</th>
<th>Weight of Total Mixture (g)</th>
<th>Area Covered (SQ FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Add 30 grams for new roller application</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.00</td>
<td>27.00</td>
<td>30.00</td>
<td>N/A</td>
</tr>
<tr>
<td>1.25</td>
<td>11.25</td>
<td>12.50</td>
<td>5.0</td>
</tr>
<tr>
<td>1.88</td>
<td>16.88</td>
<td>18.75</td>
<td>7.5</td>
</tr>
<tr>
<td>2.50</td>
<td>22.50</td>
<td>25.00</td>
<td>10.0</td>
</tr>
<tr>
<td>3.13</td>
<td>28.13</td>
<td>31.25</td>
<td>12.5</td>
</tr>
<tr>
<td>3.75</td>
<td>33.75</td>
<td>37.50</td>
<td>15.0</td>
</tr>
<tr>
<td>4.38</td>
<td>39.38</td>
<td>43.75</td>
<td>17.5</td>
</tr>
<tr>
<td>5.00</td>
<td>45.00</td>
<td>50.00</td>
<td>20.0</td>
</tr>
<tr>
<td>5.63</td>
<td>50.63</td>
<td>56.25</td>
<td>22.5</td>
</tr>
<tr>
<td>6.25</td>
<td>56.25</td>
<td>62.50</td>
<td>25.0</td>
</tr>
<tr>
<td>6.88</td>
<td>61.88</td>
<td>68.75</td>
<td>27.5</td>
</tr>
<tr>
<td>7.50</td>
<td>67.50</td>
<td>75.00</td>
<td>30.0</td>
</tr>
<tr>
<td>8.75</td>
<td>78.75</td>
<td>87.50</td>
<td>35.0</td>
</tr>
<tr>
<td>10.00</td>
<td>90.00</td>
<td>100.00</td>
<td>40.0</td>
</tr>
<tr>
<td>11.25</td>
<td>101.25</td>
<td>112.50</td>
<td>45.0</td>
</tr>
<tr>
<td>12.50</td>
<td>112.50</td>
<td>125.00</td>
<td>50.0</td>
</tr>
<tr>
<td>13.75</td>
<td>123.75</td>
<td>137.50</td>
<td>55.0</td>
</tr>
<tr>
<td>15.00</td>
<td>135.00</td>
<td>150.00</td>
<td>60.0</td>
</tr>
<tr>
<td>16.25</td>
<td>146.25</td>
<td>162.50</td>
<td>65.0</td>
</tr>
<tr>
<td>17.50</td>
<td>157.50</td>
<td>175.00</td>
<td>70.0</td>
</tr>
<tr>
<td>18.75</td>
<td>168.75</td>
<td>187.50</td>
<td>75.0</td>
</tr>
<tr>
<td>20.00</td>
<td>180.00</td>
<td>200.00</td>
<td>80.0</td>
</tr>
<tr>
<td>21.25</td>
<td>191.25</td>
<td>212.50</td>
<td>85.0</td>
</tr>
<tr>
<td>22.50</td>
<td>202.50</td>
<td>225.00</td>
<td>90.0</td>
</tr>
<tr>
<td>23.75</td>
<td>213.75</td>
<td>237.50</td>
<td>95.0</td>
</tr>
<tr>
<td>25.00</td>
<td>225.00</td>
<td>250.00</td>
<td>100.0</td>
</tr>
<tr>
<td>26.25</td>
<td>236.25</td>
<td>262.50</td>
<td>105.0</td>
</tr>
<tr>
<td>27.50</td>
<td>247.50</td>
<td>275.00</td>
<td>110.0</td>
</tr>
<tr>
<td>28.75</td>
<td>258.75</td>
<td>287.50</td>
<td>115.0</td>
</tr>
<tr>
<td>30.00</td>
<td>270.00</td>
<td>300.00</td>
<td>120.0</td>
</tr>
<tr>
<td>31.25</td>
<td>281.25</td>
<td>312.50</td>
<td>125.0</td>
</tr>
<tr>
<td>32.50</td>
<td>292.50</td>
<td>325.00</td>
<td>130.0</td>
</tr>
<tr>
<td>33.75</td>
<td>303.75</td>
<td>337.50</td>
<td>135.0</td>
</tr>
<tr>
<td>35.00</td>
<td>315.00</td>
<td>350.00</td>
<td>140.0</td>
</tr>
<tr>
<td>36.25</td>
<td>326.25</td>
<td>362.50</td>
<td>145.0</td>
</tr>
<tr>
<td>37.50</td>
<td>337.50</td>
<td>375.00</td>
<td>150.0</td>
</tr>
<tr>
<td>38.75</td>
<td>348.75</td>
<td>387.50</td>
<td>155.0</td>
</tr>
<tr>
<td>40.00</td>
<td>360.00</td>
<td>400.00</td>
<td>160.0</td>
</tr>
<tr>
<td>41.25</td>
<td>371.25</td>
<td>412.50</td>
<td>165.0</td>
</tr>
<tr>
<td>42.50</td>
<td>382.50</td>
<td>425.00</td>
<td>170.0</td>
</tr>
<tr>
<td>43.75</td>
<td>393.75</td>
<td>437.50</td>
<td>175.0</td>
</tr>
<tr>
<td>45.00</td>
<td>405.00</td>
<td>450.00</td>
<td>180.0</td>
</tr>
<tr>
<td>46.25</td>
<td>416.25</td>
<td>462.50</td>
<td>185.0</td>
</tr>
<tr>
<td>47.50</td>
<td>427.50</td>
<td>475.00</td>
<td>190.0</td>
</tr>
<tr>
<td>48.75</td>
<td>438.75</td>
<td>487.50</td>
<td>195.0</td>
</tr>
<tr>
<td>50.00</td>
<td>450.00</td>
<td>500.00</td>
<td>200.0</td>
</tr>
</tbody>
</table>
What is Liquid Nanotint?
Liquid Nanotint is a highly transparent solar control coating that blocks UV and IR. Unlike dark window film, it is more durable and transparent.

What is Nanotint’s optical performance?
The specially formulated Solar Control Liquid NanoTint coating blocks up to 99.9% of ultra-violet (UV) light and absorbs up to 95% of Infra-Red (IR) light on the window, while still allowing for up to 85% visible light transmission.

How is DryWired® Liquid NanoTint applied?
Liquid NanoTint is a 2-component solution that, once mixed, has a pot life of 2 hours. The mixed solution is applied with a specialized paint roller. For more detailed information, please consult the application instructions for DryWired® Liquid NanoTint.

Is Liquid NanoTint applied on the interior or exterior of a glass surface?
DryWired® recommends coating the interior surface of a glass. Interior environmental conditions are more easily controlled resulting in optimum clarity and uniformity of the final fully cured coating.

Are special conditions required during the application process?
Yes, DryWired® recommends application at a temperature between 41-95°F (5-35°C) and relative humidity 70% or less. Air circulation should be minimized to mitigate contamination in the form of dust and dirt during the application process and for at least the initial 60 minutes time.

What is the coverage rate of the DryWired Liquid NanoTint?
Each high-density foam roller used will absorb and retain 30 grams of Liquid NanoTint solution. In addition to these initial 30 grams, every additional 30 grams of Liquid NanoTint solution will cover an area of 1m² (10ft²).

What type of surface preparation is required?
Clean glass is essential to successful Nanotint applications. We provide a glass cleaner and a primer that should be applied prior to the Nanotint. For more detailed information, please consult the Standard Operating Procedure for DryWired® Liquid NanoTint.

How large of a surface area can a single person coat in the recommended 4 minute time frame?
One person can coat approximately 2m² (21ft²) before encountering application challenges.

Can the Liquid NanoTint coating be applied by a method other than the high-density foam roller?
HVLP spray application is possible but not recommended due to overspray challenges.

Are there any odors associated with the application of the product?
Similar to a household paint, there is an initial odor that lasts for a few hours as Nanotint dries. We recommend vacating the premises during the application for a minimum of 4 hours. Once the coating has fully dried (within 90 minutes), odors begin to diminish and off gassing occurs as validated by independent third party testing. This documentation is available upon request.

What are the recommended safety procedures?
As with any material being used in the workplace or home, please refer to label for safety precautions. More detailed information is provided in the DryWired® Liquid NanoTint Safety Data Sheet which includes safe handling, storage, personal protective equipment, and disposal procedures.

Can the Liquid NanoTint coating be removed from glass surfaces?
Yes. Nanotint is removable with specialty solvents and a razor blade.

Is there a warranty on this product?
There is a 15 year warranty on this product.

Can the NanoTint surface be cleaned with common cleaning supplies?
Yes common cleaners will not affect the Nanotint coating once it dries. We recommended waiting 48 hours before cleaning the window. Abrasive cleaning materials should be avoided.

Can this coating be physically scratched?
Abrasion of the coating is possible. It is important to remember that the coating is only as sound as the substrate. If a material will abrade glass, it will abrade the Liquid NanoTint Coating.