



ANT Lab's SX Glass Coat

Technical Data Sheet



Product Description -

ANT Lab's SX Glass Coat™ delivers an durable, optically invisible coating that provides water repellent and residue release properties. In testing, the friction was reduced significantly, thus making wiping & polishing surfaces significantly easier. Glass Coating also increases the scratch resistance of the glass by 600 % - 800 %.

Characteristics -

Appearance	Colourless , Liquid
Abrasion Resistance	5.9 mg Passed
Optical Distortion	No Distortion observed .
Transmission of Light	No Changed observed .
Cold Test	Passed
Bake Test	Passed
DryFilm Thickness	0.1 – 0.3 mil
Boil Test	Pass
Abrasion by Wiper Test	Lasts effectively for 312 hrs .
Humidity	No Effect of humidity

Types of glass substrates that can be coated -

Automobile Glass	Front & back wind shield ,Side mirrors .
Architectural Glass	Windows, Doors, Roofs.



Benefits –

ANT Lab's SX Glass Coat have several benefits ,

1. Easy-to-Clean Smooth & Glossy Surface .
2. Longevity of 6 to 14 months on a single twin coat.
3. Environmental Protection for extreme gloss surface & colour retention .
4. Chemical & Corrosion Resistance Surface after coating .
5. Optical neutrality of the surface is 100% retained.

Applications -

ANT Lab's SX Glass Coat™, across glass assets :

1. Automobiles –Mirrors and WindShield
2. Domestic\Household – Windows , Sliding Windows .
3. Commercial Architecture – Building glass panel , Roof , Doors .

Application Details :

ANT Lab's SX Glass Coat™, as with most final finishes, is best sprayed on to achieve optimum finish & appearance. With all the below methods of application, always cover any adjacent surfaces like metal etc to keep them free of drips or accidental coating . If applying outdoors, make certain the ambient temperature is between 40° F and 105° F, and RH is under 90%. Make certain that there is no chance of rain for a minimum of 5 hours after the estimated time of completion of the coating process .

Coverage	180-200 sq. m./ litre
Possible Equipments for application	<ul style="list-style-type: none">• Fine bristle brush• Air Spray• Airless Spray• High Density Foam Roller• Lint Free Fabric
Application Equipment - Air Spray	<ul style="list-style-type: none">• Spray Gun –LVLP or HVLP (1.3-1.5 mm nozzle)• Pressure at Gun –29-30 PSI
Application Equipment - Airless Spray	<ul style="list-style-type: none">• Tip Size –Graco 519 or 619 orifice• Pump –32:1 min• Pump Pressure –56-60 PSI
Full Hard Cure time	19 to 22 hours (@27° C, 55% R.H.)
Coating Dry Time	8 – 20 min (27° C, 55% R.H)



DustFree Time

12 mins (@27° C, 55% R.H.)

Application Procedure & Preparation :

Step 1 : Equipment Clean Up - Clean equipment thoroughly with acetone or thinner.

Step 2 : Surface Finish – Surface must be clean, dry, and in sound condition . Ask for Acetone Cleaner from ANT Labs Representative .

IMPORTANT #1 : When applying over glass , clean the surface with water , wipe surface with a dry cloth and then clean with any acetone based cleaner (or Acetone Cleaner from ANT Labs)

Step 3 :Test Small area - Due to the wide variety metals & the various methods of application always test ANT Lab's SX Glass Coat™, in an inconspicuous location to ensure adhesion and determine that the desired look is achieved .

Step 4a : Application method by Spraying - Shake the contents of ANT Lab's SX Glass Coat™, thoroughly of to re-suspend the nanoparticles that have settled to the bottom. When surface preparation is complete and surface is dry and free of dust, begin application using a high volume, low pressure (HVLP) spray gun (refer Application details table for Tip and Pressure). If there is high wind, this will affect the quality of the finish as blowing wind can disrupt the spray pattern from your HVLP. It can also contribute to contamination of the finish with blowing dirt. Please take necessary precaution .

IMPORTANT #2 : On a small corner of the glass first spray a test pattern to achieve a 5" to 5" elongated pattern approximately 2" wide in the middle and fluid enough to cover. Once the spray pattern is achieved on the test , spray one coat in a cross-pattern; "left to right" then "up and down". This will provide sufficient coverage and will help prevent holes in coverage.

Step 4b : Application method by Foam Roller - Shake the contents of ANT Lab's SX Glass Coat™, thoroughly of to re-suspend the nanoparticles that have settled to the bottom .

Pour ANT Lab's SX Glass Coat™ into a roller pan and completely saturate a white, ultra smooth, high-density foam roller. Apply in a cross-pattern; "left to right" then "up and down" as quickly as possible as the coating dries very quickly. Avoid down pressure on the roller to provide a better looking finish .

Step 4c : Application method by Brushing - Shake the contents of ANT Lab's SX Glass Coat™, thoroughly of to re-suspend the nanoparticles that have settled to the bottom .

Select the appropriate size brush width based on the surface area being coated. Using a good quality bristle brush, apply ANT Lab's SX Glass Coat™ in a cross-pattern; "left to right" then "up and down".

To obtain best results, do not over work the coating, seeing as it dries very quickly. Use light strokes using the tip of the brush to smooth out the coating.



Storage :

Store in dry area at temperatures between 14 - 18° Celsius (20% higher temp reduces shelf life by 4.5%)

- Shelf Life (seal un-opened) – 6 months .
- Shelf Life (seal opened) - 15 days .

Container Cap must be closed immediately after use to avoid contamination.

Discard if liquid turns white in color . It should always remain colorless to be effective .

Safety , Caution & Maintenance :

1. Always wear DGFASLI approved Respiratory protection.
2. Fresh air and exhaust are required in the work area.
3. Wear butyl-rubber gloves and other skin protection to avoid contact.
4. Chemical safety goggles or splash shields are required.
5. Do not wear contacts without eye protection.
6. If inhaled - move to fresh air and call physician immediately if physical difficulties occur.
7. In the event of contact with skin - wash skin thoroughly with soap and water.
8. In the event of contact with eyes - Immediately flush eyes with water for 15 minutes after contact and get medical attention.
9. If accidentally swallowed - rinse mouth thoroughly and obtain immediate medical attention.

IMPORTANT #3 : Although ANT Lab's SX Glass Coat™ is scratch resistant, it is not scratch-proof. Do not use abrasive cleansers or abrasive scouring pads. If an area gets damaged or is mechanically abraded, simply lightly use a cleaner to remove the coating and reapply . If the substrate is damaged at the same time, make the necessary repairs first, and then re-apply ANT Lab's SX Glass Coat™ .