

## Removing Contaminates from Neat® Coated Glass Surfaces

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- Read this document entirely before starting service work.
- Use proper safety precautions when performing window services.

### Tools and supplies needed

- Safety Glasses
- Lint Free Rags
- Cerium Oxide
- Spray Bottle with Tap Water
- Small Cup

Neat® Glass from Cardinal is designed to create a streak-free non-beading glass surface that stays cleaner longer. Silicon dioxide makes Neat glass exceptionally smooth so water disperses evenly and evaporates quickly, greatly reducing water spotting. After Cardinal creates a glass surface that is exceptionally smooth they apply a sputter coat of Titanium dioxide. This Titanium dioxide coating reacts chemically with the sun's UV rays, causing organic materials that are on the glass to decompose.

If foreign materials such as Silicones and oils are accidentally acquired on the Neat Glass surface they will not allow the Neat coating to work as intended.

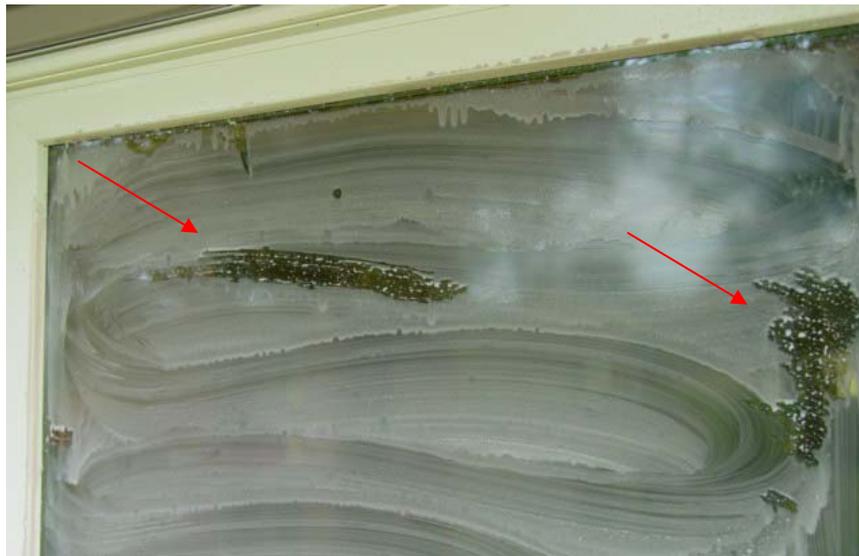
Care must be used when removing any foreign materials on the Neat® Glass surface as the Titanium Dioxide surface can be damaged not allowing the Neat to perform as designed. Do not used motorized buffing machines on the Neat® Glass surface. The use of a razor blade is allowed for stubborn residue. The use of a razor blade should be limited so that the glass surface is not scratched.

1. The below photo shows silicone on the exterior glass surface. Tap water was sprayed on the exterior glass surface to simulate rain, exposing the contaminated areas.



2. To remove contaminants from the glass surface take a small amount of Cerium Oxide powder and place in a small cup. Mix with tap water to form a paste with the consistency slightly less than motor oil. Thin the mixture as needed by adding more water.
3. Mist the entire glass surface of the window with tap water from the spray bottle. This will reduce the chances of creating incidental scratches on the glass surface when the Cerium Oxide compound is applied.
4. Start at the top of the window and rub the Cerium Oxide compound on the glass surface using a lint free rag.

5. Separate the window into approximately 1/3's or 1/4''s working in small sections to identify and remove any contaminants in the specific glass area.



6. When a contaminated area is identified use light pressure and buff the Cerium Oxide compound in that region until the contaminants are removed.

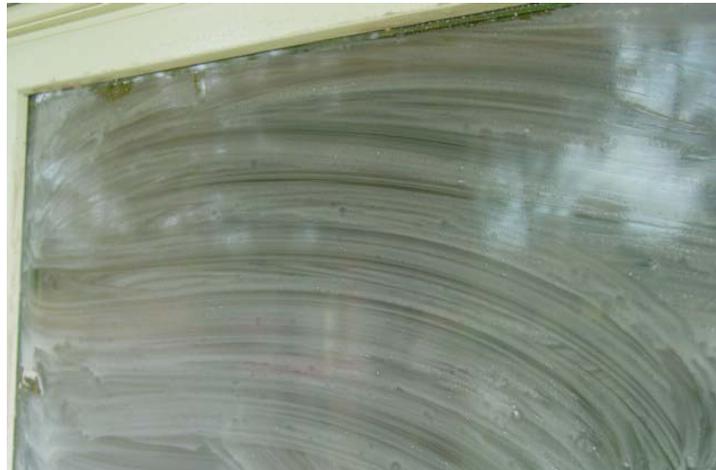
Before



During



After



7. When you have evaluated the entire glass surface and no more contaminants are found on the glass surface, rinse the glass surface with tap water until no Cerium Oxide compound residue remains on the glass surface.

8. When finished the windows should be spot free and no water beads should form on the glass surface.



**Plain Glass** that has a Neat Coating, but has recently been washed with glass cleaner. The glass has a temporary contamination due to the cleaner and rags used. This will go away in a couple days with UV exposure.



9. When finished, look at the sill of the window and make sure there is no remaining residue that acquired at the sill or got behind the sash. Also look at the siding below the window and make sure there is no residue left on the siding material surface. If there is any residue, wash clean with tap water.