



LUMINARY CHEMICAL

LUMICHEM GLASS

Technical Data Sheet



Hydrophobic nanotechnology-based surface coating.
Engineered for glass surfaces.

English

DESCRIPTION

LumiChem Glass is an ecologically sound, silica based, ready-to-use, single component molecular coating that forms a long lasting, hygienic quartz glass barrier on all types of glass.

The treated surface becomes hardened and is resistant to oils, dirt, hard water etching, soap buildup, and is easy to clean, hydrophobic, and oleophobic while reducing maintenance time and harsh chemical cleaners. Glass PROTECT-S features high surface slip, enabling the exceptional self-cleaning effect of glass surfaces.

With contact angles above 100°, glass stays cleaner for longer with increased visibility and has a noticeable cleaner appearance.

Surfaces Suitable for Application

All glass surfaces including exterior building glass, automotive glass, windscreens, architectural curtain walls, shower glass, mirrors, divider walls, interior and exterior windows and many more.

Additional Information

Surface must be dry and free of all soil, dirt, oils, and sealers. Test surface in an inconspicuous area before application.

Application may be done by use of spray equipment, pump or hand sprayer, immersion, padding, or by roller. For smaller volumes, spray LumiChem Glass onto substrate and ensure product is wiped onto all designated areas.

If product pools, spread the excess evenly until all is absorbed. Surface may be buffed in a circular motion to remove any streaking. If streaking persists, dampen cloth slightly with product and buff in circular motion.

Glass must be cleaned to remove any dirt, additives, or washing agents prior to application. Apply at temperatures of 5°C/41°F to 25°C/86°F.



NOTE

LumiChem Glass is a solvent-based formulation. Always ensure that the surface is safe for brief contact with water before application.

DIRECTIONS FOR USE

Surface must be dry and free of all soil, dirt, oils and sealants. Application may be done by use of spray equipment, pump or hand sprayer, immersion, padding, or by roller. For smaller areas, spray LumiChem Glass onto the surface and ensure the product is wiped onto all designated areas.



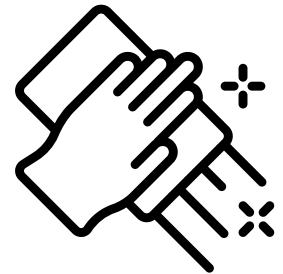
Step 1

Clean surface to be treated, ensuring a dry finish. Typical glass cleaner may be used.



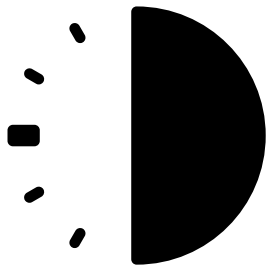
Step 2

Apply LumiChem Glass to a clean microfibre cloth; not directly to the glass surface.



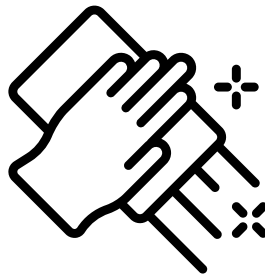
Step 3

Wipe the cloth in a circular or cross-hatch motion to apply the coating onto the glass.



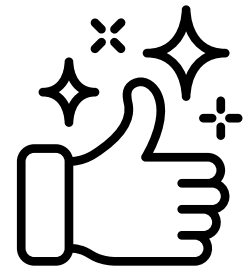
Step 4

Wait at least 30 seconds to allow the coating bonds with the glass surface.



Step 5

Buff the surface clean with a different, clean microfibre cloth in a circular motion.



Step 6

Allow LumiChem Glass at least 3 hours to cure at ambient temperature before use.

SPECIFICATIONS

Curing Time	LumiChem Glass stabilizes minutes after application and may experience light use. 12 hours is ideal for full cure at ambient room temperature.
Coverage	Coverage of LumiChem Glass depends on the ambient temperature and application method, but is typically around 10 - 30 ml/m ²
Maintenance	Treated surface may be cleaned as normal. Mild cleaners and less-frequent cleaning is acceptable.
Features	Invisible, skin friendly, easy cleaning, long lasting & durable, unaltered surface breath-ability, short drying period, environmentally friendly, flexible, soil and dirt rejecting, hydrophobic, oleophobic, inert.
Resistant To	Water, humidity and oil, soil & stains, bacteria & other microbes, mold & algae, ultraviolet (UV) rays, acid and alkaline, abrasion, hydrolysis, high temperatures.
Ingredients	Proprietary SiO ₂ formulation dissolved in water.
Precaution	The use of latex gloves is recommended as the product may dry skin.
Handling	Refer to MSDS Sheet.
Containers	Size of containers on demand
Shelf Life	1 year for an unopened original container. Opened product should be used as soon as possible. Keep in a cool, dry place.

SAFETY WARNING

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Handling and Storage

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Exposure Controls / Personal Protection

- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection is not required under normal conditions of use.



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