

# Put the chore of window cleaning behind you thanks to low-maintenance, self-cleaning glass

## How does it work?

A transparent coating on the outside of the glass harnesses the power of both sun and rain to efficiently remove dirt and grime.

Exposure to the UV rays present in daylight triggers the decomposition of organic dirt and prevents mineral dirt from adhering to the surface of the glass. It also turns it "hydrophilic" meaning that when it rains the water sheets across the glass, without forming droplets, rinsing away the broken down dirty residues.

Only a small amount of sunlight is required to activate the coating so the self-cleaning function will work even on cloudy days. A simple rinse of water during dry spells will help keep your windows clean.



## Benefits

Self-cleaning glass does not need to be cleaned as frequently as normal glass. However it is not 100% maintenance free. It is kept clean using natural elements present in UV light from the sun and rain so the "chore" of window cleaning is considerably reduced.

**Less frequent cleaning** – windows stay cleaner for longer.

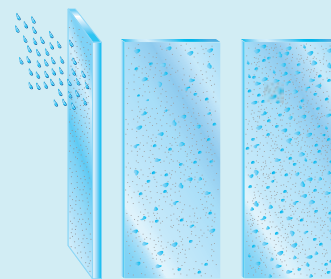
**Much easier cleaning** – less dirt and grime adheres to the glass.

**Save money** – the cost of window cleaning is reduced.

**Ideal for hard to reach areas** – such as roofs.

**Permanent coating** – lasts the lifetime of the window itself.

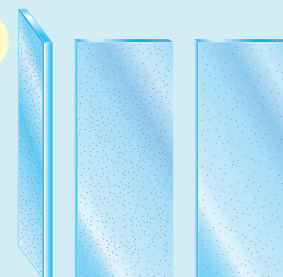
**Environmentally friendly** – less frequent use of water and detergents.



Each day grime and dirty water marks gather on normal glass.

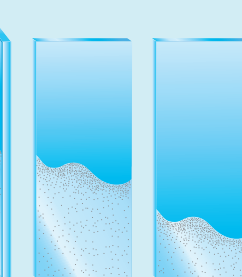
## SGG Bioclean, dual-action self-cleaning function

### 1 The action of UV rays: "Photocatalysis"



Exposure to the UV rays in daylight triggers the decomposition of organic dirt and minerals on the surface of the glass.

### 2 The action of rain: "Hydrophilosity"



Water (or rain) forms a sheet across the surface of the glass, rinsing away the broken-down organic dirt and minerals.

# BC

# SGG Bioclean®

## Self Cleaning Glass

# Frequently Asked Questions

## What is self-cleaning glass and how does it work ?

Self-cleaning glass is glass with a special 'hydrophilic' and 'photocatalytic' coating on one face. This coating is activated using UV rays present in daylight. The photocatalytic action actually breaks down organic dirt that lands on the surface and prevents inorganic (mineral) dirt from sticking to it. Hydrophilic means that it loves water so when it rains or is hosed down the water sheets across the surface, thus rinsing the broken down dirt away and drying more quickly and uniformly. Windows therefore stay cleaner for longer and are easier to clean if necessary.

## Does SGG BIOCLEAR really work?

Yes, although it is important to realise that SGG BIOCLEAR is not 100% maintenance free, and will require occasional manual cleaning, particularly during dry spells. The frequency of manual cleaning is significantly reduced and cleaning is much easier when needed as less dirt and grime adheres to the glass and a rinse with a hosepipe is usually enough to re-activate the coating.

## What does SGG BIOCLEAR look like?

SGG BIOCLEAR is one of the most neutral and efficient self-cleaning glass's available, being free of unsightly tints.

## Can SGG BIOCLEAR be used in coastal areas?

Yes, SGG BIOCLEAR has been used successfully in a number of coastal applications.

## Is SGG BIOCLEAR suitable for indoor use?

No, the coating that has been applied to the glass only works when it is exposed to both UV rays and rainwater making it unsuitable for indoor use.

## Why should I buy SGG BIOCLEAR?

SGG BIOCLEAR will revolutionise the way you clean your windows:

- Windows stay cleaner for longer, saving you time and money on window cleaning.
- SGG BIOCLEAR is the most neutral self-cleaning glass available.

- No unsightly tint or unattractive reflective surface.
- Permanent self-cleaning coating that lasts the lifetime of the window.
- Ideal for hard to reach areas such as conservatory roofs.
- Stubborn marks are easier to clean, even without the use of detergents.
- Available with a solar control coating for cooler interiors.

## How long does the self-cleaning coating remain on the glass?

SGG BIOCLEAR has a permanent coating that lasts the lifetime of the window, without reducing in performance, unlike other "easy-clean" spray on products.

## My house is north facing can I still use SGG BIOCLEAR?

Yes, the amount of UV required to activate the coating is relatively low and therefore North facing applications will still receive sufficient exposure.

## Can SGG BIOCLEAR be combined with any other products?

Yes, SGG BIOCLEAR can be incorporated into a double glazed unit with most other glass products i.e. energy efficient, safety or solar control glass types.

Also available is SGG BIOCLEAR COOL-LITE ST, a dual coated glass combining the function of self-cleaning with the added benefit of solar control. Up to 2/3 of heat from the sun is reflected and uncomfortable glare is reduced by over 50%, whilst still letting in lots of natural light.

## How quickly will the glass begin to work after being installed?

The glass will require 1-4 weeks to fully activate depending upon the amount of exposure to UV, after which the coating continues to break down organic dirt even through the night.

## How can I be sure I have got SGG BIOCLEAR in my windows ?

You should be able to see the difference when you spray water onto your windows. With SGG BIOCLEAR the water forms a sheet across the surface of the glass, without leaving droplets.

The glass will also dry quicker, without leaving streaky marks. If you remain unsure please go back to your supplier for further clarification.

## What do I do during dry spells?

During dry spells it may be necessary to give the glass a spray with a hosepipe to ensure that the glass continues to clean.



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