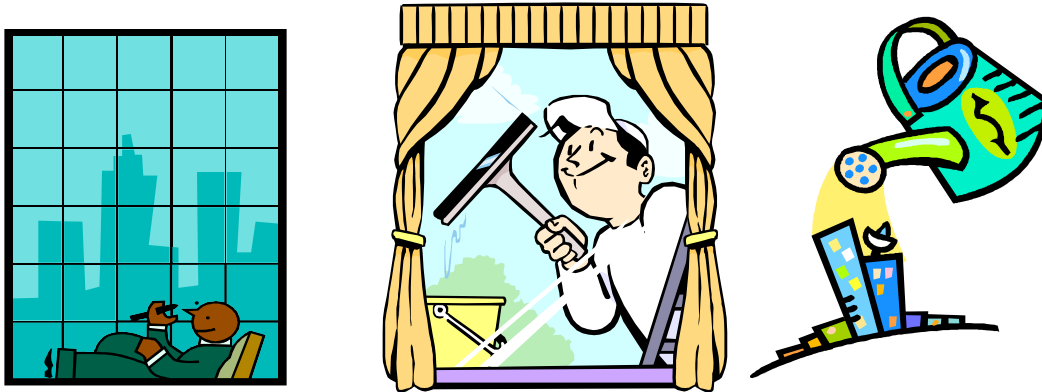


What is the Product

Pilkington Activ™ Self Cleaning Glass



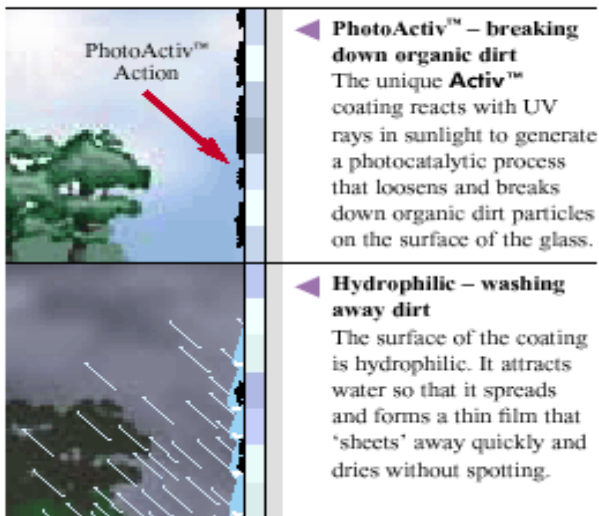
What's nano about it?

- Activ™ uses a nanoscale transparent coating (15 nanometers) of microcrystalline titanium oxide.

How does it work?

- The coating allows for two chemical reactions to occur on the exterior surface of the glass.
- The coating absorbs ultraviolet light (from the sun) which breaks down and loosens organic dirt.
 - This is a photocatalytic effect
- The coating also has a hydrophilic component
- When rain or water hits the glass, the hydrophilic part causes the water to spread into sheets rather than bead up like regular glass.
- The water spreads evenly across the glass and runs off while taking the loosened dirt.

Dual cleaning process of Pilkington Activ™



How Pilkington says the glass works.

Does it have other applications?
Any place a clean glass surface is needed.

Price

- Comparable to other glass

Glossary

- Titanium oxide- is a photocatalyst under ultraviolet light
- Photocatalyst– something that speeds up a chemical reaction by using light
- Hydrophilic – absorbs water, likes to take in water

This information came from:

[Http://www.pilkington.com](http://www.pilkington.com)
<http://www.technovelgy.com>

Definitions came from:

<http://dictionary.com>