PILKINGTON

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Creating a healthier, cleaner, and safer world

Pilkington **SaniTise™**

Antimicrobial glass for public transportation

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Pilkington **SaniTise™** is an online coated glass with a transparent photocatalytic coating that provides antimicrobial properties and activity against enveloped viruses when exposed to UV. The coating on the glass retains its properties for up to two hours, when exposure to UV ends, helping to reduce the risk of cross-infection.

Applications

- Buses/coaches
- Airport shuttles
- Trains
- Trams & underground
- Cruise ships or ferries

Features and Benefits

- Durable pyrolytic coating;
- Can be toughened, laminated, bent and processed into insulating glass units;
- Compatible with harsh commercial grade cleaning products;
- Multiple tints/substrates available;
- Thickness available from 3.2 mm to 10 mm.

Pilkington **SaniTise**™ - technical performance

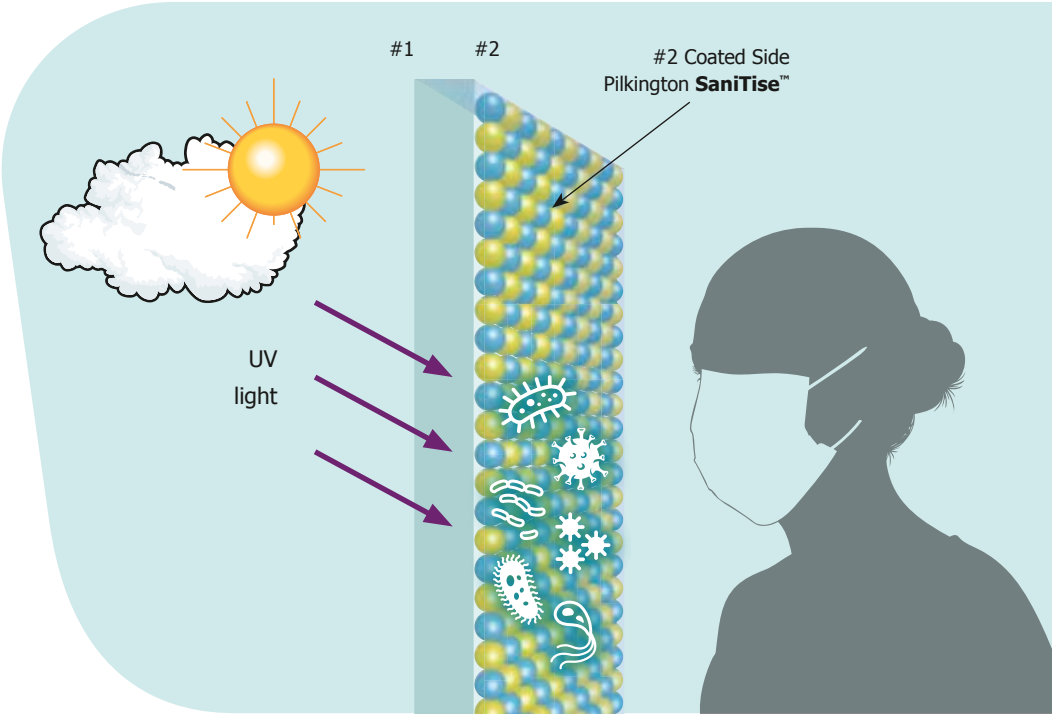
Glass product	Light (%)			Solar radiant heat (%)				Total shading coefficient	U_g [W/m²K]
	Transmittance	Reflectance external	Reflectance internal	Direct transmittance	Reflectance	Absorptance	Total transmission		
3.2 mm Pilkington **SaniTise**™ Clear (#2)	85	14	14	82	13	5	83	0.95	5.8
4 mm Pilkington **SaniTise**™ Clear (#2)	85	14	14	81	13	6	83	0.95	5.8
6 mm Pilkington **SaniTise**™ Clear (#2)	84	14	14	78	12	10	80	0.92	5.7
3.2 mm Pilkington **SaniTise**™ Grey (#2)	57	9	12	55	8	37	64	0.74	5.8
4 mm Pilkington **SaniTise**™ Grey (#2)	52	8	12	49	7	44	60	0.69	5.8
6 mm Pilkington **SaniTise**™ Grey (#2)	41	7	12	38	6	56	51	0.59	5.7
3.2 mm Pilkington **SaniTise EverGreen**™ (#2)	71	11	13	48	8	44	58	0.67	5.8
4 mm Pilkington **SaniTise EverGreen**™ (#2)	68	11	13	43	8	49	54	0.62	5.8
6 mm Pilkington **SaniTise EverGreen**™ (#2)	61	10	13	33	7	60	47	0.54	5.7

The above performance data has been determined in accordance with EN 410 and EN 673.

How it works

The glass uses a TiO_2 based coating deposited directly onto the glass surface during its manufacturing process. When the Pilkington **SaniTise**™ coating is exposed to UV radiation from natural daylight or from artificial UV light sources, it becomes activated. It then reacts with water vapour within the air, in a photocatalytic process that produces reactive oxygen species. These species provide a number of functions, including the ability to break down organic species, providing antimicrobial properties and activity against enveloped viruses on the glass surface. When the coated glass surface is treated using a UV disinfection process, the effectiveness of disinfection is increased and in some cases doubled, compared to using uncoated glass.

Pilkington **SaniTise**™ coating must be UV activated to be beneficial



This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "SaniTise" and "EverGreen" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.

CE marking confirms that a product complies with its relevant harmonised European Norm.
The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE

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