

### Building and General Use

The film should be applied to the inside of the window. The window must be cleaned first, with a razor blade or steel wool. An ammonia solution can be used to remove old adhesive or hard to shift dirt since any blemishes will detract from the finished result. The window must then be cleaned with isopropanol and allowed to dry. It is best to ensure that the film is cut oversize. To align the film it can initially be aligned at the top edge using the 'hinge' method. The film is self-adhesive and supplied on a thin clear liner, which should be removed before application.

When applying the film use a wet application method to saturate the glass. Be aware that water around the edge of the panel will cause dirt ingress so avoid excess fluid towards the edges of the film. Squeegee the film by applying overlapping strokes from the top centre outwards in each direction and then repeat down the film. A felt squeegee is recommended to avoid scratching. Once applied the excess can be trimmed. This can be achieved by running a squeegee down the edge of the film at a 45° angle with a blade pressed against it.

### Vehicle Use

While the film is best applied with the windows removed, satisfactory results can be achieved with the windows in place. It can be applied over rear window heater elements.

The film can be often cut to size by using the outside of the glass to create a profile of the window: Lay the film onto the outside of the glazing, cut the film to size, then remove the liner and apply to the inside.

When applying to a vehicle window with double curvature, 'darts' will appear. Working the film with a squeegee from the centre outward, it is best to ensure that 'darts' appearing in the film due to excess material are worked into a horizontal 'fingers' at the left and right edges of the material. This enables the darts to be cut, and any cuts can be aligned with heater element lines. Vertical fingers can be removed by using a heat gun to remove excess material, being careful not to blister the film.

### Limitations of Use

Section 32 of the Department of Transport Road Vehicles Regulations [with effect from 1st January 2004] prevents the use of window tints on the front screen of vehicles and restricts the use on side windows forward of the B posts. "... anyone responsible for the fitment of window tints which reduce visible light transmission levels to below the prescribed levels [of 70% visible light transmission] forward of the B post is committing an offence and can be prosecuted." For more detailed information regarding these regulations please contact Metamark, or the Department of Transport.

For application to buildings care should be taken when applying to double-glazing as heat absorption may cause cracking. The film will have limited performance when used on internal glazed partitions.

	Mirror Silver	Smoke Grey	Limo Black
U.V Light Transmission	< 1%	< 2%	< 2%
Visible Light Transmission	< 15%	< 37%	< 8%
Solar Energy Rejected	< 79%	< 34%	< 43%
Solar Energy Transmission	< 12%	< 55%	< 42%

For further technical support email [technical@metamark.co.uk](mailto:technical@metamark.co.uk) or call +44 (0)1483 571111

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