

Decra Led[®]
WINDOW LEADING PRODUCTS



PRODUCT DATA SHEET NO. 7

DECRA-GLOW SELF ADHESIVE FILM

Decra-Led have been engaged in the manufacture of self adhesive lead strip and associated products for many years. The knowledge and experience gained has led to the introduction of a range of self-adhesive coloured film, **Decra-Glow**, which we believe is the best available.

APPLICATION INSTRUCTIONS

- 1 The glass surface should be thoroughly cleaned using a proprietary glass cleaner such as **Decra-Clean** or similar and then wiped/polished with a clean, dry cloth to ensure any residues are removed.

Where a glass washing machine is used, the rinse and drying stage must be effective in removing detergent, chemical residues and all traces of cutting oil.

NOTE: Some commercial glass cleaning agents may contain additives which can leave a “film” on the glass surface and are therefore not suitable for use with **Decra-Glow** film.

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2. Position a template or working drawing behind the glass and apply the lead following standard Product Data Sheet No. 16 leading instructions.
3. On completion of the leaded design, remove the template and clean the unleaded side of the glass (as paragraph one above).
4. There are two methods of applying **Decra-Glow** film. In both instances it is recommended that the application is carried out on a light box:-
 - (a) Cut sufficient film to cover the appropriate section of the design, overlapping the lead. Remove the backing paper and, holding the film by its outer edges (avoid touching the adhesive) spray a fine “mist” of clean water, preferably de-mineralised water, on to the adhesive. This enables the film to be positioned accurately. Then using a squeegee or rubber roller, remove any excess moisture and air. Finally, using a scalpel or sharp craft knife cut through the film inside the centre line of the lead and remove excess film.
 - (b) Using a light box, position the film over the appropriate section of the design and then, using a felt tip pen or chinagraph pencil, mark the film following the centre of the “shadow” of the lead. Cut along the lines with a sharp pair of scissors, remove the backing paper and apply as (a) above.
5. When the design is complete, it is advisable to stand the panel down for a period of 30 to 60 minutes. This allows the adhesive bond to develop and any residual moisture to disperse.
6. Thoroughly clean the panel as paragraph 1 above and apply lead (following P.D.16 instructions) to match the design, neatly covering the small gaps between each piece of film. The lead covering the outer edges of the design should be applied so that half contacts the film and half contacts the glass. Extra care should be taken during this operation to ensure good surface contact is obtained.

NOTES AND USEFUL HINTS

- (a) **Decra-Glow** film should only be applied to plain flat glass; application to patterned glass is not recommend.
- (b) Pre-printed designs can be applied as (4a) or (4b) overleaf.
- (c) Any adhesive residue should be removed before applying the film.
- (d) Where the film edges meet, these should be butt-jointed, leaving a 1 to 2mm space – NOT overlapped.
- (e) Avoid working in a dusty atmosphere, as dust specks trapped between the film and glass are unsightly and difficult to remove.
- (f) When designing coloured, leaded panels, care must be taken to allow the spacer tube and sealant to contact the glass, free from any interference from lead or film. The ordering and manufacture of coloured leaded units and windows should be designed so that gaskets and glazing materials fit outside the perimeter lead.

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AVAILABILITY

Decra-Glow self adhesive films are supplied in sheet form measuring approximately 660mm x 460mm. There is a very wide range of colours/shades in both plain and marbled effects.

Basic – translucent – 48 colours/shades

Cathedral – transparent – 10 colours/shades

Background – transparent – 20 colours/shades

Effect films ranging from Frost (Sandblast) to Ice Flower

Also available are pre-printed designs.

NOTE: Every effort is made to ensure good colour reproduction, but due to printing and colour processing limitations, colours/shades may vary slightly. Marbled films are individually produced by adding various colours to the original base colour, therefore due to the manufacturing technique, no two films will be identical.

Each colour/shade is code numbered and batch coded therefore it is essential to ensure that sufficient film is ordered from one batch to complete the design, quoting the colour, code number and type of film, i.e. transparent, translucent, plain or marbled.

TECHNICAL

The base of the coloured film is a self-adhesive Mylar™ carrier belonging to the group of polyester films. Mylar™ is the registered trademark of the Dupont Company. The material retains its form and is highly transparent when correctly handled. The colouring medium is non-fading and has excellent resistance to moisture, solvents, detergents etc. In trials, the coloured surface has been artificially aged in a “Xenon Artificial Ageing Chamber” to test colourfastness. The results were assessed using the “Blauwoll Scale” on a scale of 1 to 8 according to DIN 16525 specifications. (DIN is a list of German industry standards.) All colours achieved the values of 7 to 8 under direct U.V. radiation and simultaneous wet ageing.

The films are, in addition sealed with a surface protector. This additional laminate absorbs up to 90% of natural U.V. radiation, depending on the degree of latitude before the light touches the actual pigmentation. As the same U.V. filter is integrated into the Mylar™ carrier, the colouring is securely sealed and protected against outer influences. Further advantages of the surface sealing are the rich “glass like” gloss and reliable protection of the colour against scratches or damage from solvents, glass cleaning agents, etc.

PERFORMANCE

The combined application of **Decra-Glow** and **Decra-Led** has been successfully tested to the relevant clauses of B.S. 5713 in respect of U.V. requirements.

Decra-Glow film is suitable for use on single or double-glazing, however, on single glazing it is recommended that the film is applied to the room side and on hermetically sealed units, on the cavity side of the outer pane.

WARRANTY

North Western Lead Co. (Hyde) Ltd guarantees that **Decra-Glow** film will not fade by more than 10% of its original density in a period of ten years (limited to replacement of film and lead only) when correctly applied to double glazed units manufactured to B.S. 5713 standards.

Due to the possibility of adverse influences on single glazing, the warranty does not apply.

The above information and suggestions are prepared from the best knowledge available to ourselves and given in good faith. We will not be held liable for any inaccuracies in this information or any misuse of **Decra-Glow** film.