

Application Instructions for 3M™ Diamond Grade™ DG³ Sheeting with 3M™ Scotchcal 3485 Fluorescent Yellow for High Visibility Vehicle Chevrons

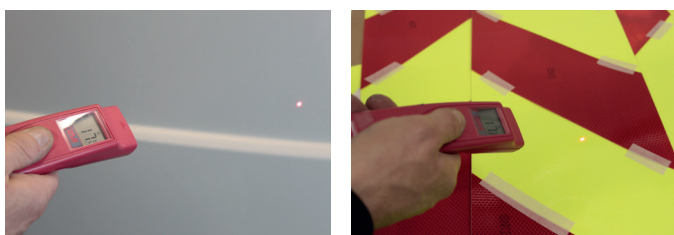
Tools

- 3M Applicator PA-1 (blue or gold)
- 3M Low Friction Sleeve SA-1 (used on the plastic applicator to minimise surface scratching)
- Industrial heat gun with a temperature range of approximately 250-400°C
- Lint free cloth
- 3M Surface Preparation System
- 3M Application Tape
- Infrared thermometer



1. Application temperature

3M™ Diamond Grade™ DG³ Sheeting should be applied when the ambient and application surface temperatures are between 15°C and 38°C.



a) Check the temperature of the kit and vehicle using an infrared thermometer. Check the temperature on multiple parts of the bodywork.

- If the substrate temperature is below 15°C the surface may be heated using a heat gun, heat lamps, hot water or steam. Ensure the surface is thoroughly dry before application.
- In addition, when the outside temperature is below 15°C, the kit must also be heated using an industrial heat gun. The heat gun should be held 20-30 cm from the panel to avoid burning, melting or distorting the kit.

2. Surface preparation

All surfaces must be cleaned prior to application.



a) Wash the vehicle surface with detergent and water to remove dirt and road film.



b) Wipe using a clean lint free cloth saturated with 3M Surface Preparation System (isopropyl alcohol) to remove grease or other surface contaminants. Wipe the surface again with a clean lint free cloth.

Caution:

To ensure the kit is not distorted, applied heat should be regulated so that the kit surface is comfortable to the touch.

Following the heat treatment, the kit should be re-squeegeed and left inside for a minimum of 12 hours to assure adequate adhesion in cold temperatures.

Note Application to rusted or corroded metal, severely pitted, loose or chalking paint, bolts, support plates or within 3mm of door hinges, exterior posts, weld joints is not recommended.

3. Application

Checklist:

- Wash hands prior to application
- Do not touch the adhesive with your hand
- Inspect the contents of the livery kit to ensure all parts of the kit have been received
- Check the condition of materials. Panels should not be bent, distorted and the rear liner should be intact. Remove any shards from the material



a) Ensure you have each correct panel for the chevron kit you are applying.



b) If applying a base layer of yellow, apply this first before applying the reflective material.



c) Position all of the panels on the vehicle using 3M Application Tape. Ensure all chevrons are correctly aligned across the area of the vehicle you are fitting to.



d) Starting from the centre of the vehicle working out towards the edge of the vehicle, hinge back the first panel and remove the liner.



e) Using a 3M PA-1 applicator with cotton/low friction sleeve, press the kit to the surface using firm, overlapping strokes. A firm felt squeegee can be used during initial application, followed up with the PA-1 applicator and sleeve.



f) Repeat this process for each individual panel in each area. Continuing to work from the centre of the vehicle outwards removing masking of each hinged panel.



g) Once you have completed these steps and all panels are adhered to the vehicle, firmly adhere all edges and parts of the kit where surface adhesion is minimal. This is very important to reduce failures. Pay particular attention to the outside edge of each panel.



h) Using a lint free cloth wipe down the entire area, removing any dirt that may have built up during the chevron fitting.