



## TECHNICAL DATA SHEET - PROTECTIVE FILM BFSHIELD

*BFSHIELD* is a transparent, self-healing, adhesive-coated film that was specially developed for protecting vehicle windscreens against impacts and scratches. Due to its self-healing properties at room temperature, stone chips and micro-scratches caused by windscreen wipers, for example, disappear instantly. Excellent water evacuation due to its water-repellent surface. Application to the exterior of windshields.

### **FILM FEATURES:**

	<u>Indicative values</u>
• Total thickness (film + adhesive) (µm):	180 (7.1 mil) ±10 %
• Visible light transmission (%):	≥ 90
• Max. UV transmission (%):	≤ 1

### **LINER:**

- Surface protection: Polyester film with silicone-coated adhesive.
- Adhesive protection: Silicone-coated polyester liner.

### **ADHESIVE PROPERTIES:**

	<u>Average value</u>	<u>Standard</u>
• Peel strength test (N/25 mm): after 24 hours of application:	6	HEXFTM001

### **ADHESIVE:**

- Acrylic adhesive.

### **USER'S INSTRUCTIONS:**

- For an optimal installation of the BFSHIELD film without any visual distortion, the film application must be carried out by an installer who has followed the Tear-off training provided by HEXIS S.A.S.
- When handling the film - excluding film application - always touch BFSHIELD with clean, dry hands.
- The film must be applied without thermoforming.
- Recommended minimum application temperature: 18 °C (+64 °F).
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).

**Caution:** *BFSHIELD is equipped with a protective surface film, which must be removed in the timeframe between positioning the adhesive-coated film on the windscreen and applying it.*

- Position and apply the film performing the wet application method using the diluted HEXISOAP solution (press once on the dispenser bottle per litre of water for correct dosing).

*During the removal of the adhesive protection liner, the diluted HEXISOAP must be sprayed.*

- Only use the special tools dedicated to the application of vehicle window films.

*If you notice a certain resistance on the film surface when squeegeeing during application, pour a mixture of HEXISOAP solution diluted with water into the sprayer (press once on the dispenser bottle per litre of water for correct dosing) and spray the BFSHIELD surface with this installation liquid.*

- Quasi-immediate adhesion: do not peel off the film once applied.

*The film continues to conform to the glass after application, reaching its maximum transparency after a few days.*

## **OPERATING RECOMMENDATIONS:**

**Caution:** *Please enquire about the current legislation in the country of use of the said film prior to any modification of the vehicle's glazing. HEXIS cannot be held liable for any non-compliance with the current legislation of the country of use.*

- The film can be cleaned with soapy water or glass cleaner and a non-abrasive sponge.
- Dry the film with a rubber squeegee or a clean microfibre cloth.

## **STORAGE:**

- Shelf life (before application):

The shelf life of this film is 1 year when stored horizontally in its original packaging at a temperature ranging from +18 °C to +22 °C (+64 °F to +72 °F) with relative humidity ranging from 40 % to 60 %. The packaging must be stored on a dry, completely flat and uniform surface.

## **DURABILITY:** (Central European climate)

- Vertical exposure:  
Up to 1 year (under normal road use conditions).
- Lifespan depends on the type and preparation of substrate, exposure conditions as well as nature and frequency of the cleaning.

## **NOTES:**

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the media for each application. In case of doubt, request an expert evaluation of the compatibility of the film and the glass in question. HEXIS cannot be held responsible for any irregularity, in regards to the current legislation of the country of use, caused by the application of the film in question to the vehicle. All of the published information is based on measurements regularly performed in the laboratory. The published information does not however constitute a binding guarantee. The seller cannot be held liable for indirectly related damages and assumes no liability for claims that are higher than the replacement value of the purchased product. All specifications are subject to potential changes without prior notice. Our specifications are automatically updated on our website [www.hexis-graphics.com](http://www.hexis-graphics.com).