HXS5000

PRODUCT DESCRIPTION:

A 65-µm high-performance, calendered, polymeric PVC film, which is coated with a pressure-sensitive, solvent-based, acrylic adhesive. Structured adhesive for faster application and air evacuation. Matt or glossy surface finish.

FILM FEATURES:

· Thickness	(Indicative value) 65 µm	
· Tensile strength	(Average values) min. 35 N/25 mm	Method HEXNFX41021
· Elongation at break	(Average values) min. 100 %	Method HEXNFX41021
· Shrinkage 168 hours at 70 °C (158 °F)	(Average values) < 0.6 mm	Method HEXRET001

LINER:

- Silicone-coated and embossed PE paper 145 g/m² with light grey HEXIS print.
- Stable under hygrometric variations

ADHESIVE PROPERTIES:

(Measured average values at publication of the technical data sheet)

- Peel strength test at 180°; Measurement support glass

after 20 minutes of application	(Average values) 13 N/25 mm	Method HEXFTM001
after 24 hours of application	(Average values) 15 N/25 mm	Method HEXFTM001
· Initial tack	(Average values) 16 N/25 mm	Method HEXFTM003
· Release	(Average values) 0.2 N/25 mm	Method HEXFTM003

- Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, petrol, diluted acids, oils, fuels).

ADHESIVE:

- Solvent-based acrylic adhesive.
- Structured adhesive for faster application and air evacuation.
- Immediate and permanent adhesion, optimal after 24 hours of contact.

USER'S INSTRUCTIONS:

- Dry application method

  It is mandatory to use the so-called «dry» application method with this film, due to its HEX'PRESS *liner. This technology means you can easily reposition the film on the substrate during application, while not excluding the squeegeeing step for optimal adhesion of the film to the substrate.*

- Recommended minimum application temperature: +10 °C (+50 °F)
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F)

- The films should preferably be stored in the same environment as the cutting station.
- If the pressure during cutting is too high, the protective liner (silicone-coated paper) may slightly crack causing adhesive bleeding. This would make the weeding process more difficult and the paper liner could even peel off in the cutting area. In any case, it is recommended to weed the material immediately after the cutting.
- For a uniform visual aspect, it is necessary to keep the same film application direction in order to ensure colour homogeneity according to the viewing angle.
- Possibility of transferring the HXS5000 films using the film tapes Hex904, Hex905, Hex910, Hex915, Hex930 or Hex750.

- Using tape or self-adhesive film on the HXS5433B surface will modify its appearance.

When removing the tape or self-adhesive film, sequins are torn off from the film surface and leave a visible mark.

- Adhesion to glass, steel, aluminium, PVC, melamine, etc. except grain substrates or substrates coated with acrylic paint.
- In the case of an already painted substrate, self-adhesive media must only be applied to undamaged original paintwork. If the paintwork is not original and/or damaged, the application and the removal are at the judgement and risk of the installer.

OPERATING RECOMMENDATIONS:

- The colour of the films is controlled by HEXIS in order to ensure faithful reproduction of their colour tints. Nevertheless, in the case that your project requires the use of several rolls of the same colour reference, HEXIS recommend using only a single batch number of each reference.

STORAGE:

Storage period before use
2 years

Relative humidity during storage
with relative humidity between 30 % and 70 %

Storage temperature
+15 °C to +25 °C (+59 °F to +77 °F)

Storage method before use
in its unopened original packaging

DURABILITY: (Central European climate)

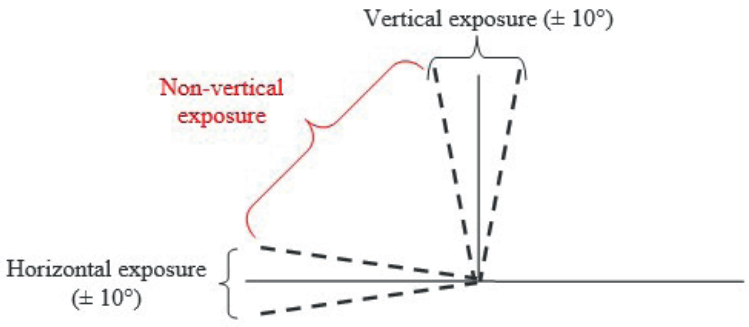
Dominant colour	Max. indicative durability (years)[1] Vertical exposure (± 10°)
Glossy white, black	*10*
Colours, other tints	*8*
Metallic colours	*4*

Chart 1 : Vertical durabilities[1] Central Europe

- The pigmentation (colour) of the PVC affects the stability duration of the dyes. An estimate of such a durability is confirmed by accelerated UV ageing tests performed on the HXS5000 films and by natural outdoor weathering.
- The durability indicated above is obtained specifically in vertical outdoor exposure (± 10°). The conditions of durability indicated in Chart 1 are inherent to this position up to a few degrees. Other positions accentuate climatic influences and an alteration in gloss or colour, or even a slight dusting may appear. Application to the vehicle bonnet is particularly severe, due to the horizontal exposure and the heat from the engine.
- To estimate the durabilities for non-vertical exposure, divide the durabilities in Chart 1 by the factors given in Chart 2.

Exposure	Dividing factor [1] Central European climate
Non-vertical exposure	*2*
Horizontal exposure (± 10°)	*2,8*

Chart 2: Dividing factor



- The real durability of a product depends on a large number of parameters, including, among others, the quality and preparation of the substrate, exposure (environment, climate, exposure angle), graphics maintenance, and degree of pollution.

DURABILITY: (Central European climate)

To find the indicative durabilities of the films for any other exposure and geographical area, please refer to the «Conversion rules for indicative durabilities according to geographical area» chart available under Durability, on the «Professionals» pages on our site www.hexis-graphics.com.

NOTES:

(1) The indications of durability noted in this document do not constitute a binding guarantee. They are an estimate of the time during which the film retains a correct surface finish, from a conventional viewing distance.
A slight and gradual change in colour and gloss is a natural and inevitable phenomenon inherent in the natural breakdown of the materials.

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. The measuring methods for the standards quoted above served as the basis for the development of our own measuring methods, which are available on request. Please feel free to contact us to get the latest instructions in use. 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.

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