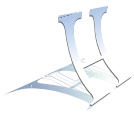


TECHNICAL DATA SHEET - PLOTTER VINYLS - ECOTAC - REINFORCED ADHESIVE

VCRE3000 Series

Range comprising of an 80-µm, calendered, monomeric PVC, which is coated with a pressure-sensitive, acrylic adhesive. Particularly recommended for indoor application to walls (e.g. Placoplatre® BA13 plasterboard, smooth or slightly textured walls) or low-energy surfaces (polyethylene, polypropylene, etc.). This product is **C-s1, d0** classified according to the standard for fire behaviour EN 13501-1:2018. **Matt or glossy** surface finish.

FILM FEATURES:

	Indicative value	
• Thickness (µm):	80	
	Average values	Standard
• Tensile Strength (N/25 mm):	min. 40	HEXNFX41021
• Elongation at break (%):	min. 100	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 1.2	HEXRET001

LINER:

- Silicone-coated Kraft paper 137 g/m², with blue HEXIS print.
- Stable under hygrometric variations.

ADHESIVE PROPERTIES:

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

	Average values	Standard
On glass		
• Peel strength test 180° (N/25 mm):		HEXFTM001
after 20 minutes of application	15	
after 24 hours of application	16	
• Initial tack (N/25 mm):	17	HEXFTM009
On polypropylene		
• Peel strength test 180° (N/25 mm):		HEXFTM001
after 20 minutes of application	11	
after 24 hours of application	15	
• Initial tack (N/25 mm):	8	HEXFTM009
• Release (N/25 mm):	0.2	HEXFTM003

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

ADHESIVE:

- Solvent-based acrylic adhesive.
- Immediate and permanent adhesion.
- Adhesive suitable for indoor applications to smooth or slightly textured walls (such as Placoplatre® BA13 plasterboard).
- Adhesive suitable for application to low-energy surfaces (polypropylene, polyethylene, etc.).

USER'S INSTRUCTIONS:

- Recommended minimum application temperature: +10 °C (+50 °F).
- Operating temperature range: between -40 °C and +90 °C (-40 °F and +194 °F).
- The film can be transferred using a PE or PP transfer film (HEX904, HEX910, HEX930, etc.).
- The VCRE3000 film can be applied to an **A1** or **A2-s1, d0** classified plasterboard substrate.
- According to the substrate and/or paintwork, the application and removal are at the installer's own judgement and own risk.

STORAGE:

- Shelf life (before application):

  The shelf life of this film is 2 years when stored in its unopened original packaging at a temperature ranging from 15 °C to 25 °C (+59 °F to +77 °F) with relative humidity between 30 % and 70 %.

DURABILITY:

- 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 VCRE3000 films and by natural outdoor weathering.

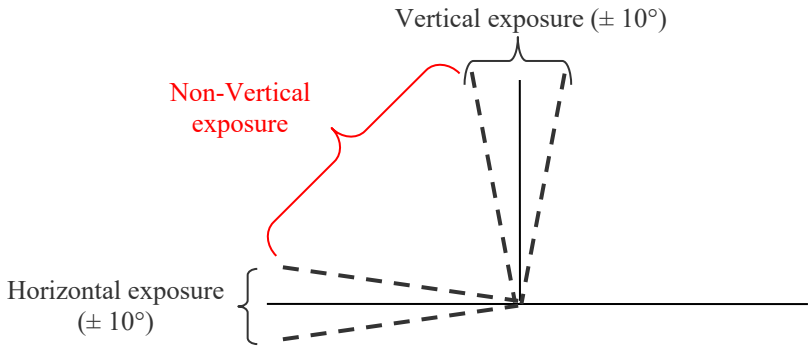
Dominant colour	Max. indicative durability (years) [1] Vertical indoor exposure (± 10°) on flat surfaces Central European climate
White, Black	6
Colours, other tints	5
Colour with red, yellow/orange tendency.	2

- The results indicated below are obtained specifically in vertical (± 10°) outdoor exposure on flat surfaces. 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.

To find the indicative durabilities of the films for the country of exposure, please refer to the "Conversion rules for indicative durabilities according to geographical area" chart available under Durability in the "Professionals" pages of our website at www.hexis-graphics.com.

CERTIFICATIONS:

- This product is **C-s1, d0** classified according to the standard for fire EN 13501-1:2018 (protocol no. EFR-21-003367)

NOTES:
Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the medium 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 the published information is based on measurements regularly performed in the laboratory. It 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.