



TECHNICAL DATA SHEET - DIGITAL PRINTING - PVC - PERMANENT ADHESIVE VCXR20IWGI

Film composed of a 70- μm calendered, polymeric PVC, which is coated with a pressure-sensitive, extra-reinforced, permanent adhesive. Due to its extra-reinforced adhesive, this product is particularly recommended for application to irregular surfaces, such as bricks, concrete, chipboard, etc. or low-energy surfaces (polyethylene, polypropylene, etc.). For solvent, eco-solvent, latex and UV inkjet printing. Glossy surface finish.

FILM FEATURES:

	Indicative values	
• Thickness (μm):	70	
• Total thickness of the product (μm):	315	
	Average values	Standard
• Total weight of the product (g/m^2):	335	HEXGSM001
• Tensile strength (N/25 mm):	min. 35	HEXNFX4102I
• Elongation at break (%):	min. 100	HEXNFX4102I
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 1	HEXRET001

GENERAL PRINTER COMPATIBILITES:

	Solvent	Eco-solvent	Latex	UV
VCXR20IWGI	✓	✓	✓	✓

LINER:

- Silicone-coated PE paper 145 g/m^2 with light grey 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	27	
after 24 hours of application	29	
• Initial tack (N/25 mm):	32	HEXFTM009
On polypropylene		
• Peel strength test 180° (N/25 mm):		HEXFTM001
after 20 minutes of application	13	
after 24 hours of application	17	
• Initial tack (N/25 mm):	17	HEXFTM009
• Release (N/25 mm):	0.1	HEXFTM003
• Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils).		

ADHESIVE:

- This adhesive is particularly recommended for application to irregular (bricks, concrete, chipboard), non-chalky and non-sandy surfaces.
- Special low-energy surface adhesive (polypropylene, polyethylene, etc.).
- Solvent-based acrylic adhesive.
- Immediate and permanent adhesion.

USER'S INSTRUCTIONS:

Due to the wide variety of existing substrates, the application of vinyl to an unsuitable and/or not adequately prepared surface or laminate may result in media lifting from the substrate or damage to the substrate when the film is removed. The application and removal of the vinyl are at the judgement and risk of the installer. HEXIS will not, under any circumstances, be liable for any damages or deteriorations caused by the installation or removal of a vinyl film.

- Touch-dry after less than 10 minutes depending on printer used.
- Minimum recommended application temperature: +10 °C (+50 °F), acceptable down to -1 °C (30 °F).
- Operating temperature range (outdoors): -40 °C to +90 °C (-40 °F to +194 °F).
- Maximum operating temperature range (outdoors, on irregular surfaces): +60 °C (+140 °F).
- For application to irregular surfaces, the substrate must be cleared of all traces of dust to ensure optimum adhesion of the film.
- 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.

If necessary, refurbish the substrate or existing laminate before applying the vinyl. A drying time of 7 - 10 days may be needed before proceeding with the vinyl application. The degassing of a non-dried paint can lead to lifting, bubbles and tearing of the film.

OPERATING RECOMMENDATIONS:

- For any lamination or other, optimal drying time for the inks is 24 hours minimum.
- The surface finish of your printings may be modified/improved/protected by laminating them with the appropriate laminate: PC500 or V750. For UV printings, use the protective VCR750 laminate.

STORAGE:

- Shelf life (before application):

The shelf life of this film is 1 year when stored unopened in its 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: (Central European climate)

- Vertical outdoor exposure:
Unprinted: 8 years.
Printed and laminated:
 - PC500: 5 years;
 - V750: 4 years;
 - VCR750: 3 years.Printed: 2 years.
- Vertical outdoor exposure on irregular surfaces (brick, concrete, chipboard, etc.): Printed and laminated with PC500, V750 or VCR750: 3 to 6 months depending on exposure and climate conditions.
- Indoor exposure on irregular surfaces (brick, concrete, chipboard, etc.): 5 years.

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:

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.