



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

Film composed of a 70- μ m calendered, polymeric PVC, which is coated with a permanent, extra reinforced, pressure-sensitive adhesive. Because of its extra-reinforced adhesive, this product is particularly recommended for applications 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:

	<u>Indicative values</u>	
• Thickness (μ m):	70	
• Total thickness of the product (μ m):	315	
	<u>Average values</u>	<u>Standard</u>
• Total weight of the product (g/m^2):	335	HEXGSM001
• Tensile strength (N/25 mm):	min. 35	HEXNFX41021
• Elongation at break (%):	min. 100	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 1	HEXRET001

GENERAL PRINTER COMPATIBILITIES:

	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)

	<u>Average values</u>	<u>Standard</u>
On glass		
• Peel strength test 180° (N/25 mm):		HEXFTM001
after 20 minutes of application	30	
after 24 hours of application	33	
• Initial tack (N/25 mm):	37	HEXFTM009
On polypropylene		
• Peel strength test 180° (N/25mm):		HEXFTM001
after 20 minutes of application	13	
after 24 hours of application	17	
• Initial tack (N/25mm):	17	HEXFTM009
• Release (N/25 mm):	0.5	HEXFTM003
• Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils).		

ADHESIVE:

- This adhesive is particularly recommended for applications 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prepared surface or laminate may result in media lifting from the substrate, or damage the substrate when the film is withdrawn. 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 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 application temperature recommended: +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 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 lamination before applying the vinyl. A drying time of 7 - 10 days can be needed before proceeding with the vinyl application. The outgassing of a non-dried paint can lead to lifting, bubbles and tearing of the film.

OPERATING RECOMMENDATIONS:

- For any coating and other, optimal drying time for the inks is 24 hours minimum.
- The surface finish of your printing may be modified/improved/protected by a judicious choice of laminating films PC500 or V750. For UV printing, protect with the laminating film VCR750.

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 upon exposure and climate conditions.
- Indoor exposure on irregular surfaces (brick, concrete, chipboard, etc.): 5 years.

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. The measuring methods for the standards quoted above served as 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.