



## TECHNICAL DATA SHEET - DIGITAL PRINTING - PVC - PERMANENT ADHESIVE VCXR30IWGI – VCXR30IWSI

Films composed of a 100- $\mu\text{m}$  calendered, monomeric PVC, which are coated with a pressure-sensitive, extra-reinforced, permanent acrylic adhesive. Due to their extra-reinforced adhesive, these products are particularly recommended for application to smooth or slightly grainy walls (such as concrete, chipboard, plywood etc. or low-energy surfaces (polyethylene, polypropylene, etc.). For solvent, eco-solvent, latex and UV inkjet printing. Glossy (VCXR30IWGI) or satin (VCXR30IWSI) surface finish.

### **FILM FEATURES:**

	<u>Indicative values</u>	
• Thickness ( $\mu\text{m}$ ):	100	
• Total thickness of the product ( $\mu\text{m}$ ):	330	
	<u>Average values</u>	<u>Standard</u>
• Total weight of the product ( $\text{g}/\text{m}^2$ ):	350	HEXGSM001
• 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

### **GENERAL PRINTER COMPATIBILITES:**

	<b>Solvent</b>	<b>Eco-solvent</b>	<b>Latex</b>	<b>UV</b>
<b>VCXR30IWGI – VCXR30IWSI</b>	✓	✓	✓	✓

### **LINER:**

- Silicone-coated PE paper 145  $\text{g}/\text{m}^2$  with light blue 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>
<b>On glass</b>		
• Peel strength test 180° (N/25 mm):		HEXFTM001
after 20 minutes of application	33	
after 24 hours of application	38	
• Initial tack (N/25 mm):	41	HEXFTM009

**On polypropylene**

- |   |     |           |
|---|-----|-----------|
| • Peel strength test 180° (N/25 mm):  |     | HEXFTM001 |
| after 20 minutes of application   | 23  |           |
| after 24 hours of application   | 25  |           |
| • Initial tack (N/25 mm):   | 21  | HEXFTM009 |
| • Release (N/25 mm):  | 0.1 | HEXFTM003 |
| • Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils). |     |           |

**ADHESIVE:**

- Solvent-based, acrylic adhesive.
- Special low-energy surface adhesive (polypropylene, polyethylene, etc.).
- Immediate and permanent adhesion.

**USER'S INSTRUCTIONS:**

*Due to the wide variety of existing substrates, the application of film to an unsuitable and/or inadequately prepared surface or coating may result in media lifting or damage when the film is removed. The application and removal of the film 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.
- Recommended minimum 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).
- Very good adhesion to glass, steel, aluminium, PVC, melamine, smooth or slightly grainy surfaces, etc., except chalky or damaged substrates (cracks, holes, humidity or condensation spots, excess of texture).

*If necessary, refurbish the substrate or existing laminate before applying the vinyl.*

- Carry out a degassing test on freshly painted surfaces before applying any film.

*A drying time of 7-10 days may be needed before proceeding with the film application. The degassing of a non-dried paint can lead to lifting, bubbles and tearing of the film.*

**OPERATING RECOMMENDATIONS:**

- Optimal drying time for the inks before laminating or further processing is 24 hours minimum.
- The surface finish of the printings may be modified/improved/protected by applying the appropriate laminate: V700 or V650. For UV printings, use the protective VCR650 laminate.

**STORAGE:**

- Shelf life (before application):

The shelf life of this film is one year when stored upright in its original packaging in a dust-free environment at a temperature ranging from 15 °C to 25 °C (+59 °F to +77 °F) with relative humidity of 50 %.

**DURABILITY:** (Central European climate)

- Vertical outdoor exposure on flat surfaces:  
Unprinted: 4 years.
- Vertical outdoor exposure on slightly grainy surfaces (concrete, chipboard, etc.):  
Printed and laminated with V700, V650 or VCR650: 2 to 4 months depending on exposure and climate conditions.
- Indoor exposure on slightly grainy surfaces (concrete, chipboard, etc.): 3 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 the geographical area" chart available under Durability, on the "Professionals" pages on our site [www.hexis-graphics.com](http://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 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).