



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

### VCSR20IWGI – VCSR20IWM1

Films composed of a 70- $\mu$ m calendered, polymeric PVC, which is coated with a permanent pressure-sensitive adhesive. Particularly recommended for application to walls (e.g. Placoplatre® BA13, smooth or slightly textured walls) or low energy surfaces (polyethylene, polypropylene, etc.). For solvent, eco-solvent, latex and UV inkjet printing. Gloss (VCSR20IWGI) or matt (VCSR20IWM1) surface finish.

#### **FILM FEATURES:**

	<u>Indicative values</u>	
• Thickness ( $\mu$ m):	70	
• Total thickness of the product ( $\mu$ m):	255	
	<u>Average values</u>	<u>Standard</u>
• Total weight of the product ( $\text{g}/\text{m}^2$ ):	280	HEXGSM001
• Tensile strength (N/25 mm):	min. 35	HEXNFX41021
• Elongation at break (%):	min. 100	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.8	HEXRET001

#### **GENERAL PRINTER COMPATIBILITES:**

	<b>Solvent</b>	<b>Eco-solvent</b>	<b>Latex</b>	<b>UV</b>
<b>VCSR20IWGI – VCSR20IWM1</b>	✓	✓	✓	✓

#### **LINER:**

- Silicone-coated PE paper 145  $\text{g}/\text{m}^2$  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>
<b>On glass</b>		
• Peel strength test 180° (N/25 mm):		HEXFTM001
after 20 minutes of application	27	
after 24 hours of application	31	
• Initial tack (N/25 mm):	30	HEXFTM009
<b>On polypropylene</b>		
• Peel strength test 180° (N/25 mm):		HEXFTM001
after 20 minutes of application	11	
after 24 hours of application	12	
• Initial tack (N/25 mm):	14	HEXFTM009
• Release (N/25 mm):	0.2	HEXFTM003

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

**ADHESIVE:**

- Adhesive suitable for indoor applications to smooth or slightly textured walls (e.g. Placoplatre® type BA13).
- 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 vinyl to an unsuitable and/or not adequately prepared surface or laminate may result in media lifting from the substrate, or damage the already existing substrate or coating when the film is withdrawn.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 no 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 application temperature recommended: +10 °C (+50 °F), acceptable down to -1 °C (+30 °F).
- Operating temperature range (outdoors): from -40 °C to +90 °C (-40 °F to +194 °F).
- Very good adhesion to glass, steel, aluminium, PVC, melamine, smooth or slightly textured surfaces (e.g. Placoplatre® BA13 type)... except grain, chalky, damaged substrates (cracks, holes, humidity or condensation spots, excess of texture) or substrates coated with acrylic paints...
- Due to the wide variety of existing substrates, a preliminary tear-off test must be carried out on a small inconspicuous surface of the substrate using a small piece of film.

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

- Carry out an outgassing test on freshly painted surfaces before applying any film.

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

**OPERATING RECOMMENDATIONS:**

- For all coatings, 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 V750 or PC500. For UV printing, protect with the 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.

*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](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 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](http://www.hexis-graphics.com).