

V vestolit



Wallpaper

An easy-care and cost-effective alternative

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**Polymer
Solutions**

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Image 1: Decorative Wallpaper

Wallpaper

Used as a decorative material in interior decoration, the most common form of PVC Wallpaper is either produced on a paper or on a non-woven substrate.

In this application field for PVC, the production processes are numerous and require distinct material qualities. Spread coating, rotary screen printing and gravure printing lead to the respective production of compact, foamed or hot embossed Wallpapers.

Image 2: Embossed Wallpapers





Image 3: Decorative Wallpaper

Requirements for PVC

1. A slightly pseudo-plastic flow behavior with a low viscosity in the higher shear range to obtain a stable print image at high processing speeds at the same time
2. Very fine grain size distribution, especially when screen printing or when using a reverse roll coater
3. Stable foam cells especially for the hot embossing process
4. Fast foaming and good color

Coating Process

The simplest production form for Wallpaper is the spread Coating Process. However, screen or gravure printing is used more frequently, often in combination with hot embossing.



Image 4: Rotary screen printing

Spread coating

PVC plastisol is applied by a doctor blade (usually over a steel roller).

Rotary screen printing

With this process, the plastisol is applied with a squeegee through a fine-meshed screen to the corresponding carrier (paper or non-woven). The print image is produced by open and closed areas of the pattern.

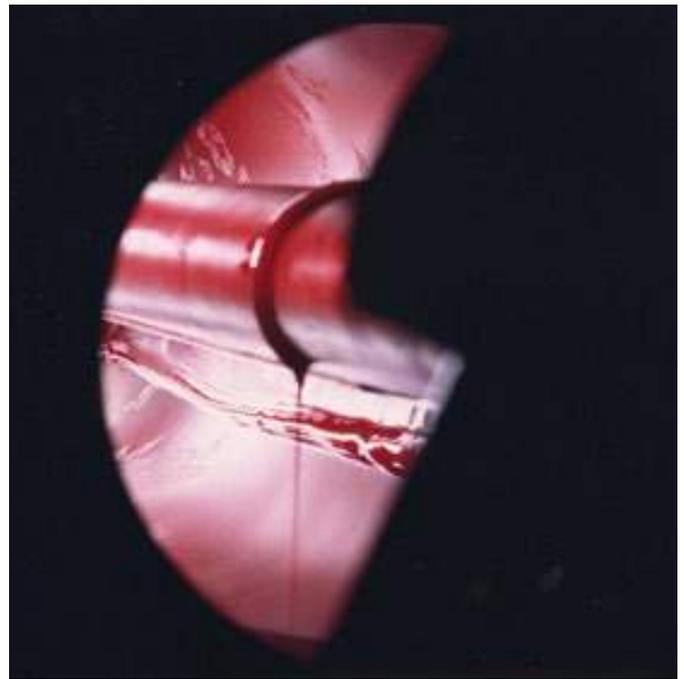


Image 5: Rotary screen printing



Image 6: Gravure printing

Gravure printing process

Steel cylinders are used with this type of application. The print image is produced through the corresponding indentations on the steel roller. The cavities are then filled with plastisol and transferred to the paper or non-woven carrier.

Hot embossing

Hot embossing is a process step that is performed at the end of the manufacturing process. The raised, usually very fine structure of the printing rollers leads to an embossing on the printed Wallpaper which mimics the print image of the Wallpaper.

Product Code	K value	Description
VESTOLIT B 6021 Ultra	60	Low viscosity, fast fusion at low temperatures, fine cell structure, high embossing speed
VESTOLIT G 124 A	64	Good chemical foamability for producing medium to high density foams. Good dispersability for easier plastisol preparation
VESTOLIT B 6512	65	Low viscosity, fast expansion, very good foam color, high proportion of open cells
VESTOLIT E 7012 S	67	Fast expansion and very good foam color, with a high degree of open cells, wide processing range
VESTOLIT G 67 F	67	Low Viscosity, foamable with high filler level, good cell quality, color and thermal stability. Can stay in contact with concrete
VESTOLIT B 7021 Ultra	70	Universal resin, low viscosity, good storage stability and low moisture absorption
VESTOLIT P 1430 K70 Ultra	70	Low viscosity, good storage stability, good transparency, high gloss and good thermal stability
VESTOLIT G 415	74	Low Brookfield viscosity, good air release during vacuum, good heat stability
VESTOLIT G 415	74	Low Brookfield viscosity, good air release during vacuum, good heat stability
VESTOLIT G 74	74	Low viscosity, good air release, high mechanical strength
VESTOLIT B 7521 Ultra	75	Low viscosity, good storage stability and low moisture absorption
VESTOLIT G 179	75	Polyvinyl Chloride Homopolymer, High Molecular Weight, Resilient. It contains lower emulsifier level results in lower plate-out
VESTOLIT T 75	75	High gloss and clarity, low Brookfield and severs viscosity, very good viscosity stability, good air release properties, good heat stability, high mechanical properties
VESTOLIT E 8001	80	Alkali pre-stabilized homopolymer, very low percentage of coarse particles, mat surface finish
VESTOLIT P 1415 K80 Ultra	80	Low viscosity, good storage stability and low moisture absorption
VESTOLIT P 1430 K90 Ultra	90	Low viscosity, good storage stability, good transparency, low gloss and good thermal stability
Blending resin		
VESTOLIT XG 215	64	Low to medium molecular weight homopolymer blending resin for solid and foamed plastisol applications
VESTOLIT XC 866	66	Low gloss, good air release, fast fusion

Table A: Product overview for Wallpaper

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Imprint

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Vestolit's Application Brochures

- Artificial Leather
- Commercial Graphic Films
- Film & Sheets
- Flooring
- Medical Devices
- Profiles & Pipes
- Sealants
- Technical Coatings
- Textile Coating
- Wallpaper
- Wire & Cables

About Orbia

Orbia is a company driven by a shared purpose: to advance life around the world. The five Orbia business groups have a collective focus on expanding access to health and wellness, reinventing the future of cities and homes, ensuring food and water security, connecting communities to information and accelerating a circular economy with basic and advanced materials, specialty products and innovative solutions.