TECHNICAL DATA SHEET
SYSTEXX Active Print

Glassfibre wall coverings as an ideal base for large format printing (LFP)

Usage

SYSTEXX Active Print wall coverings are made from high-quality glass fibers. They are either finely woven from glass yarns or processed from glass filaments to form a smooth fleece. They offer the ideal basis for digitally printed surfaces indoors on ceilings and walls. Printing companies appreciate the low-interference printing process and low ink consumption. Painters quickly notice the advantages over cellulose fleece, in particular the dimensional stability (no expansion, no shrinkage) and the good cutting behavior - wet as well as dry. This ensures, not least, that end users can enjoy the high-quality look of their personal favorite motif for a long time.

Properties

All SYSTEXX wall coverings which are mentioned in theattached Table are sold including 3 inch (7,62 cm) core, without backside marking and without defect markings.

They are classified flame-retardant according to DIN EN 13501-1:2010 and fulfill the requirements of class B-s1, d0. Thanks to their high quality, they meet Oeko-Tex Standard 100. Due to their very low VOC emissions, these wall coverings achieve class A+ "d'émissions dans l'air intérieur". Furthermore, they are permeable to water vapor, wall reinforcing and crack bridging, and – in combination with corresponding coating systems – abrasion and scrub resistant as well as resistant to disinfectants and cleaning agents. They are non-toxic and suitable for allergy sufferers. Additionally, the woven fabrics are impact and perforation resistant. SYSTEXX Active Print wall coverings are applied using conventional wall adhesive techniques.

The fine glass fabric SYSTEXX Active Print 188 Co PG is pre-primed with high-quality pigments and prepared with a **special digital printing coating** on the inside of the roll (=printing side). This coating prevents the ink from running along the length, width and depth of the fabric as much as possible and, in return, contour sharpness and bright colors are particularly promoted.

Technical data / roll dimensions

See Table in the attachment.

Printing methods

Large format printers such as HP Latex and Canon Colorado UVgel have proven to be particularly suitable printing methods. Other large format printers may also be suitable, but a test print must be made in advance for assessment. The desired color profile must be defined by the printing company before printing. For the subsequent double seam cutting of the wall covering, printing with an approx. 5 cm overlap of the motif per wallpaper length is recommended.

Vitrulan Textile Glass GmbH | Bernecker Str. 8 | 95509 Marktschorgast
T +49 (0) 9227 77 0 | F +49 (0) 9227 77 700 | www.vitrulan.com | Ein Unternehmen der Vitrulan Gruppe

Substrate preparation

Substrates should be dry, clean, smooth and stable. Remove old wall coverings and unstable paints and finishes, sand down high-gloss paints to obtain a key and apply a suitable adhesion promoter. Sand down stable but rough/uneven substrates. Fill cracks/ holes with a levelling compound. The substrate must be prepared in such a way that the smallest unevenness are avoided, e.g. grains of sand, grain accumulations, etc. Processing marks may have a maximum width and height of 1 mm. If necessary, rework the surface over a large area with a smoothing plaster or in a smoothing step – Follow the plaster/filler manufacturer's instructions, especially with regard to primers. Unfilled, absorbent substrates are to be treated with a suitable primer. Remove any mold growth and treat in accordance with the relevant regulations.

More details are to be found in the table "Substrate / Preparation".

Note: Bright, white substrates enhance the color brilliance of the print. Therefore, prime with a pigmented primer to create a primed background with an even color.

Application

1. Application with adhesive

Apply sufficient latex adhesive with a paint roller or airless spray gun evenly to the wall over a width of 1 – 2 sheets. Observe the adhesive manufacturer's application notes. At normal room temperature/climate (18 °C, 60 %) the drying time is 12 – 24 hours. When applicating under extreme climatic conditions (high humidity, high temperatures), the duration can change significantly.

For adhesive consumption, please see the Table in the attachment.
Consumption quantity depends on the fabric structure and substrate.

Especially with **Glass fabric 188 PG** and **188 Co PG** pay attention to a constant adhesive application pattern, apply adhesive of approximately 120 g/m² (± 15%). If necessary, dilute the adhesive with 10 – 20 % water.

2. Butt-joining / Double cutting

Depending on the printing provider, the wall covering lengths are either edge-trimmed or prepared for double seam cutting.

With **butt-joining**, make sure that the edges butt up smoothly where one length joins another. Overlaps in the seam area must be avoided. Any adhesive left on the front of the fabric should be removed immediately with a damp clean cloth or sponge – avoid rubbing on the printed surface.

Recommendation: The SYSTEXX sponge ensures optimal seam correction. It can also be used to effectively remove adhesive from the visible side.

With **double cutting**, position the length so that it overlaps the preceding length by 3 to 5 cm, then cut through both lengths from top to bottom with a sharp knife, taking care not to damage the substrate. Remove both strips and butt the cut edges up flush with one another. Any adhesive left on the front of the fabric should be removed immediately with a damp clean cloth or sponge – avoid rubbing on the printed surface.

Recommendation: The SYSTEXX double cut knife with footer is a professional tool and enables optimal double cut seams, especially on sensitive substrates.

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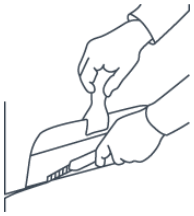
3. Pressing on and trimming

During application, use a (hard plastic) wallpaper spatula and press down firmly across the entire length, smoothing out any air bubbles. Carefully press overlapping fabric into the corners and cut sharp knife, using a wallpaper squeegee or cutting ruler as a guide, or just use wallpaper scissors.



Use a corner bead on outside corners.

Note: Use SYSTEXX corner bead 3840.

4. Revision possible

In principle there is no need to revise the surface of SYSTEXX Active Print as long as the colors were fixed during printing. But it is possible to seal the surface, e.g. with a high-quality, transparent coating. A test coating in advance is generally recommended.

Note: Test the coating's compatibility on the edge strips or on waste print sections.

Apply the paint evenly after the wall covering has completely dried. Follow the paint manufacturer's processing guidelines. All gloss levels can be used, but note that very glossy coatings might lead to light reflexions and affect the image's appearance.

The quantity depends on the paint and substrate. Determine exact values by means of a test application on the object. For further information, please refer to the technical data sheets of all products used.

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Important notes

1. Storage

Store the rolls in a dry, clean place, if possible wrapped in foil and closed, as well as frost-free and between 35 and 65% relative humidity.

2. Handling

Do not apply with room and surface temperatures below +8 °C. Always check to make sure that the order of lengths is correct to create a correct final image.

3. General information

a) Despite strict quality controls, occasional production-related defects may occur. These are indicated at the edge of the product and compensated for by adding 0.5 m to the role length. Complaints made after more than 10 drops have been hung cannot be accepted.

b) The use of glass fibers can irritate the upper layers of the skin, which can lead to irritation in sensitive people. Allergy-causing or even questionable substances are not used, which is confirmed by the Oeko-Tex certification.

c) Due to the manufacturing process of the weft, there are visually recognizable irregularities in the surface appearance of the fabrics. However, this deliberately created textile look is no reason for complaint.

d) Since wallcovered surfaces depict a craftsmanship, completely homogeneous surfaces without small irregularities cannot be achieved. A visual perception of the wallcovering sheets and seams is product-specific and unavoidable. Also, "invisible" seams are not feasible from all conceivable angles. The assessment after application has to be carried out under customary conditions, in particular in daylight and normal ceiling/room lighting perpendicular to the surface while maintaining a normal viewing distance and viewing angle. For the assessment, artificial lighting to make minor irregularities visible are just as inadmissible as the evaluation in grazing light conditions that only occur at certain times of the day or the use of aids such as magnifying glasses.

e) If light effects (e.g. grazing light) might influence the appearance of the finished surface, undesirable effects (e.g. changing shades on the surface) should be largely avoided. They cannot be completely ruled out, as light influences vary a lot and cannot be clearly detected and evaluated (e.g. in natural light). In principle, the lighting conditions, as they are intended for later use, must be known and should already be present at the time of the application. Before application, an assessment of possible undesirable effects should be made. In addition, the limits of craftsmanship on the construction site must be taken into account. Wallcovered surfaces which appear absolutely flat and shadow-free even under the influence of grazing light are not executable.

f) This information sheet replaces all previously issued ones. It does not claim to address every problem that may occur in practice. Therefore no obligation or liability may be derived from it. Users are obliged to use their professional judgment to assess the application based on the product's suitability and the substrate. Please comply with the relevant national building regulations. In case of doubt, please contact the technical advisory service at Vitrulan Textile Glass GmbH.

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Table: Technical data / roll dimensions

Product	**SAP designation**	approx. **Weight** in g/m²	approx. **Width** in cm	**Lengths** in m	**Printing side**	**Core**	**Defect markings**	**Pattern repeat** cm	**Adhesive* consumpt. per m²** Min. ml	Max. ml
Print 188 Co PG	GG 188 #C PG DP	170	100	50	**inside**	3 inch	no	→|0 free match	100	150
Print 188 PG	GG 188 PG #R #F #H	150	100	50	outside	3 inch	no	→|0 free match	100	150
Print 960 RW	GG 960 RW #R #F #H	200	100	50	outside	3 inch	no	→|0 free match	150	250
Print Glass Fleece 200 PG	GV 200 PG #R #H	200	100	50	outside	3 inch	no	→|0 free match	150	200

** Non-binding recommendation. See also section 1.1.

systexx@vitrulan.com | www.vitrulan.com
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General overview of substrate preparation

Substrate	Preparation
Exposed concrete	1. De-burr roughly 2. Fill holes and cracks sufficiently 3. Sand and prime according to filler/plaster manufacturer's instructions
Poured concrete, filigree concrete	1. Clean (abrade and smooth down) 2. Fill holes and cracks, smooth and level with a suitable filling material 3. Cover and smooth the entire surface 4. Sand and prime according to filler/plaster manufacturer's instructions
Sanding plaster	1. Sand down (remove loose sand) 2. Stabilize substrate with a suitable primer 3. Fill holes and cracks, smooth and level with a suitable filling material 4. Sand and prime according to filler/plaster manufacturer's instructions
Course textured plaster	1. De-burr roughly 2. Fill holes and cracks, smooth and level with a suitable filling material 3. Sand and prime according to filler/plaster manufacturer's instructions
Very absorbent plaster (e.g. gypsum plaster)	1. If necessary, skim the entire surface and smooth off 2. Sand and prime according to filler/plaster manufacturer's instructions
Standard plaster	1. Fill holes and cracks, smooth and level with a suitable filling material 2. Sand and prime according to filler/plaster manufacturer's instructions
Lining paper, size or sealer	1. Dampen the lining paper, size, or sealer to loosen it 2. Scrape it off 3. If necessary, skim the entire surface and smooth off 4. Sand and prime according to filler/plaster manufacturer's instructions
Peelable / stripable wallpaper **Scrap wallpaper** (e.g. cellulose)	1. Remove wallpaper entirely 2. Fill holes and cracks, smooth and level with a suitable filling material 3. Sand and prime according to filler/plaster manufacturer's instructions
Peeling / Flaking paint coating	1. Remove all loose flakes 2. If necessary, prime the surface 3. Fill holes and cracks, smooth and level with a suitable filling material 4. Sand and prime according to filler/plaster manufacturer's instructions
Distemper coatings	1. Remove completely by scraping/washing off 2. Prime with suitable keying primer
Glossy paint coatings	1. Sand until there is a mat finish 2. If necessary, apply a keying primer
Glass fabric*	1. Clean (abrade and smooth down) 2. Smoothen and level out fabric structure with a suitable filling material (prevents the formation of stripes in the texture) 3. Sand and prime according to filler/plaster manufacturer's instructions

* otherwise, an unclean structural image is created which becomes extremely disturbing after coating

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Plasterboard panels	1. Fill joints and screw holes until even surface in accordance with current plasterboard specifications 2. Sand and prime according to filler/plaster manufacturer's instructions
OSB panels, wood, Hardboard	1. Apply a protective layer (to prevent carry-over of constituents) 2. Sand 3. Fill joints and screw holes with suitable filling material 4. Fill and level whole surface with a suitable filling material 5. Sand and prime according to filler/plaster manufacturer's instructions
Ceramic tiles	1. Clean and degrease the tiles 2. Apply bonding agent (undercoat/primer for ceramic and glass) 3. Fill and level whole surface with a suitable filling material 4. Sand and prime according to filler/plaster manufacturer's instructions
Rusty steel surfaces	1. Remove rust as per DIN 55928 PST 2-3 or ST 2-3 2. Apply a suitable anti-corrosive primer 3. Fill joints with suitable (2-K) filling material 4. Sand and prime (rust protection)
Bleeding surfaces (e.g. waterstains)	1. Insulate bleeding areas with a suitable primer 2. Sand 2. Fill holes and cracks, smooth and level with a suitable filling material 3. Sand and prime according to filler/plaster manufacturer's instructions
Nicotine and soot deposits	Treat with an insulating protective layer

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