

Technical Information

Article-No.: 15290-144

FOLCO® FOAMCOAT FQ 3171/1

In General

Kind of product Thermal foamable product based on plastic dispersions.

Field of application: FOLCO® FOAMCOAT FQ 3171/1 is especially suitable for the manufacture of both paper and non-woven wallpapers with a structured surface in screen printing.

Properties:

- creates 3-D-structures
- good mechanical resistance
- low foaming temperature
- very high solid content
- good printing properties

Generally, printing results such as print-out, colouring, adhesion, abrasion resistance and water proofness are very good, however they can be influenced by the printing material.

Characteristics

Viscosity at delivery: Approx. 70-90 dPa's (Thermo Haake VT 2 plus, MK 1 at 20°C)

Solid content: Approx. 63 %

Further properties

Washability: On paper and non-woven is a high level of washability achievable (symbol 2 waves).

Temperature stability: The properties are stable by usual processing conditions.

Light fastness: WS 5 - 6

Others: Substrate material and processing conditions can affect the properties. Therefore we recommend basically self-audits of the properties be achieved on the finished products.

Application Technology Advice

Adjustment of viscosity: The product can be adjusted with water (1 – 3 %) to get the required printing viscosity.

Toning: The product can be colored with our high concentrated and heat resistant basic inks of the series FOLCO® AQUASCREEN FS 10.

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Application Technology Advice

- Application technique:** The product is optimized for application in gravure printing. By using of rough screens screen printing is possible. Depending on the printing speed and printing form thinning of the product can be necessary.
- Drying/foaming:** Generally drying and foaming should be done in dry air circulation channels with range control. To achieve an optimum tightness pre-drying should be done at approx. 100°C and foaming afterwards between temperatures of 110°C and 140°C. However, the product can still be foamed up to 24 hours after the pre-drying process.
- The exact adjustment of the drying channel depends on the printing speed, the quantity to be applied, and the size of the channel and must be determined individually.
- If the application temperature is higher than 140°C or the exposure time in the dryer is too long a foam reduction and insufficient mechanical tightness is possible.
- Cleaning:** With water, eventually could be used a stencil cleaner. The product should not get too dry.

Other advice

- Safety advice:** While handling the product keep the instructions in the safety data sheet.
- Storage:** Should be stored at temperatures between +5°C and +25°C. When kept in unopened original containers the product can be stored for 6 months.
- The storability is impaired by pollutions and thinning. The usability of the product from opened containers and product remains has to be proved before use.
- The product have to be stirred well before use.

This data sheet replaces all former technical information.

Last change: 19.09.2014

The characteristic values required for the product to be released are checked by our quality control department at the time of production; these values may change in line with storage conditions and periods and may be higher or lower than the specified limit values. The advice we provide on the application of our products is based on extensive development work and many years of experience and is given to the best of our knowledge. However, the wide variety of requirements on site under the most diverse conditions mean that it is necessary for the processor to test the product for its suitability in any given case. We reserve the right to make changes in keeping with technical developments or improvements to our products. The agreed product characteristics are exclusively as set out in this technical information sheet. Any further agreements on product characteristics must be made in writing to be valid. This applies in particular with regard to the product's suitability for a specific purpose.