

# Technical Information

Art-No. 15290-050

## FOLCO<sup>®</sup> Strukturmasse FQ 3909

### General Information

Type of product:	Thermal-reactive foaming structure paste based on synthetic dispersions.
Field of Application:	The product is designed for the manufacture of paper and non woven wallpapers as well as decorative papers or packaging with structured surfaces in the gravure and screen print.
Properties:	<ul style="list-style-type: none"><li>• precise print-out</li><li>• low volume increase after foaming</li><li>• produces hard, viscoplastic structures</li><li>• good mechanical resistance</li></ul>

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:	≈ 50 dPas (Thermo Haake VT 2 plus, MK1 at 20 °C)
pH-value	7 – 9
Solid content:	≈ 50 %

### Further properties

Washability (EN 12956):	On paper and non woven wallpapers 2 waves can be reached.
Thermostability:	The product is stable under the usual processing conditions.
Light fastness:	WS 5 – 6
Others:	Basic material and processing conditions can affect the properties. Therefore, we recommend that basically self-audits of the properties be achieved on the finished products.

### Introductions for use

Printing Viscosity:	The product can be adjusted with water to get the required printing viscosity.
Colouring:	The product can be colored with our high concentrated and heat resistant basic inks of the series FOLCO <sup>®</sup> AQUA SCREEN FS 10.

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### Further properties

- Application Technology:** Gravure and screen printing. For screen printing special rollers with appropriate depths are to be used.
- Drying:** Generally drying and foaming should be done in an air circulated drying channel with range control. To achieve an optimum tightness pre-drying should be done at approx. 80°C and foaming afterwards at temperatures between 120°C and 140°C. However, the product can still be foamed up to 24 hours after the 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 application temperature is higher than 150°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.

### Additional advices

- 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. Inks have to be stirred well before use.

Last change: 05.01.2015  
This data sheet replaces all former technical information.

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.