

## CLiQFLOW® 709

Rheological Additive

**CLiQFLOW 709** is an amide modified hydrogenated castor oil based thixotropic additive for non- to mid-polar solvent-based systems. It imparts a strongly shear-thinning flow behaviour with excellent sag resistance, as well as good flow and levelling. Anti-settling properties and workability are also improved markedly with the organic thixotrope.

**CLiQFLOW 709** has a better solvent tolerance than pure hydrogenated castor oil-based additives. It is typically applied in general industrial and heavy-duty non-aqueous paints based on mid-polar aliphatic and aromatic solvents. **CLiQFLOW 709** is also used in powder coatings to improve flow and levelling during application.

**CLiQFLOW 709** is a finely micronized powder that requires sufficient dwell times, shear forces and a well-defined temperature for sufficient activation. The activation temperature depends strongly on the polarity of the system.

### Typical values:

Appearance:	micronized powder
Particle size d50:	5-9 µm
Particle size top-cut:	< 44 µm
Melting range:	130 – 140 °C
Density (20°C):	1.02 g/cm <sup>3</sup>

### Level of Use / Incorporation:

**CLiQFLOW 709** is typically used at a loading between 0.2-2.0%.

For optimum activation, the material is added early to the manufacturing process to allow sufficient swelling. The material must be processed within a well-defined temperature window; typically, between 60-75°C for aliphatic hydrocarbon and between 35-55°C for aromatic hydrocarbon-based systems. In sf epoxies, an activation temperature between 65-90°C is typically required. In powder coatings, **CLiQFLOW 709** is incorporated sufficiently during the extrusion process. The optimum activation temperature and loading level should be determined for each system using a temperature and loading ladder study.

**CLiQFLOW 709** should be stored in a cool dry place. The minimum shelf life is 48 months when stored in unopened packages.

For information on health and safety information, please consult the Material Safety Data Sheet.

CLiQ SwissTech AG  
Bahnhofstrasse 3  
7320 Sargans  
Switzerland

CLiQ SwissTech (Deutschland) GmbH  
Bertram-Blank-Strasse 8A  
51427 Bergisch Gladbach  
Germany

CLiQ SwissTech (Netherlands) B.V.  
Blauwborgje 31  
9747AC Groningen  
The Netherlands

sample@cliqswiss.com • info@cliqswiss.com

www.cliqswiss.com

This information is based to best of our knowledge and on test results obtained in our laboratory. It is given in good faith and should only regard as recommendations. No warranty is given, and it is advised to all users to evaluate the products carefully for their intended use. Please also consider all further information, labels, and especially the safety data sheet! For further questions, technical service, and samples, please feel free to contact us.