

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 and 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 ³

Level of Use / Incorporation :

CLiQFLOW 709 is typically used at a loading between 0.2-2.0% depending on the required thixotropy.

For optimum activation the material is added early to the manufacturing process to allow sufficient swelling. The material must then 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 solvent-free 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. (please refer also to the technical information sheet for CLiQFLOW 707 and 709)

CLiQFLOW 709 should be stored in a cool dry place. Closed containers can be stored up to 24 months. **CLiQSPERSE 709** is available in 20 kg bags.

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

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This information is based on 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 consider also all further information, labels, and especially the safety data sheet! For further questions, technical service and samples, please feel free to contact us.