

## CLiQFLOW® 645 VR

Rheological Additive

**CLiQFLOW 645 VR** is a highly efficient VOC compliant, APE-, biocide, and organotin-free associative thickener for aqueous clear and pigmented systems. The polyurethane thickener provides an extremely shear-thinning flow behaviour to both aqueous industrial and decorative coatings, as well as adhesives.

**CLiQFLOW 645 VR** improves sag resistance and anti-settling behaviour and is particularly recommended as a single thickener for spray-applied aqueous systems. The product is also used in combination with high-shear thickeners to achieve a balanced flow behaviour.

**CLiQFLOW 645 VR** is compatible with most aqueous binder systems used in industrial wood, metal, or decorative coatings.

### Typical values:

Appearance:	white opaque liquid
Active Content:	ca. 25 %
Brookfield Viscosity:	< 20000 mPas
Density:	ca. 1.03 g/cm <sup>3</sup>

### Level of Use / Incorporation:

**CLiQFLOW 645 VR** can be added to the aqueous system at any production stage. It does not require a pre-dilution step.

The optimum loading level with **CLiQFLOW 645 VR** should be determined for each system using a loading ladder study. A loading level between 0.1-1.0% is recommended.

**CLiQFLOW 645 VR** shows excellent compatibility with most kinds of aqueous binders used for decorative applications.

**CLiQFLOW 645 VR** performance is not impacted by freezing, although, it is recommended to store in a cool dry place above 5°C. The minimum shelf life is 24 months when stored in unopened packages.

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

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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.