

CLiQFLOW 645 VR is a highly efficient VOC compliant tin-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 and adhesives.

CLiQFLOW 645 VR improves sag resistance and anti-settling behaviour and is particularly recommended as 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:	ca. 4500 mPa.s
Density (20°C):	1.03 g/cm ³
VOC (2004/42/CE):	< 1g/l

Level of Use / Incorporation:

CLiQFLOW 645 VR is typically added as delivered at any production stage. In sensitive formulation it may be recommended to add the product into the mill-base.

The optimum loading level should be determined for each system using a loading ladder study. A level between 0.1 – 1.0 % on total is typically required to achieve the required properties.

CLiQFLOW 645 VR shows excellent compatibility with all kind of aqueous binders and can be combined with a variety of thickeners to fine-tune the systems properties.

CLiQFLOW 645 VR should be stored in a cool dry place above 5°C.

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 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.

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