

## CLiQSMART® CM 400

Shrinkage Reduction Agent

**CLiQSMART CM 400** is a VOC-free shrinkage reducing agent for mineral-based construction materials. It provides a sustainable long term shrinkage reduction and is particularly efficient in Portland cement-based systems.

**CLiQSMART CM 400** does not expand volume to compensate shrinkage, rather it is designed to reduce active shrinkage of the material. The additive has a hydrophobic structure, and may will also reduce surface tension of the final material.

**CLiQSMART CM 400** may reduce shrinkage by up to 80% in the first weeks or by up to 50% after one year, or longer depending on the formulation and quality of the cement used. The additive is ready to use and can be easily added into the dry mix during production. Its efficiency is optimized when the construction system is mixed with water before application.

### Typical values:

Appearance:	powder
Colour:	white
pH:	ca. 7.5
Bulk Density:	ca. 400 g/l
Moisture:	ca. 5%

### Level of Use / Incorporation:

**CLiQSMART CM 400** is added in the standard production process of construction systems. The optimum loading level should be determined for each system using a loading ladder study. A loading between 0.3 – 1.5% based on total is typically required to achieve the desired efficiency.

**CLiQSMART CM 400** is easy to use and shows minor influence on other system properties. Like other products, it is suggested to evaluate the compatibility of the product in each individual formulation.

**CLiQSMART CM 400** should be stored in a cool dry place. The minimum shelf life is 12 months when stored in unopened original 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.