

RHEOBYK-7460 CA/RHEOBYK-7470 CA/RHEOBYK-D 7460

Lithium chloride-free liquid rheology additives for aqueous, solvent-based, and solvent-free systems

Regulatory requirements are increasing continuously, not only for new products but also for established ones. For example, it is expected that in the near future all products containing 0.3 % (within the EU) or 0.1 % (outside the EU) lithium chloride will have to be labeled as reprotoxic, i.e. will receive the H360F addition.

For many years, BYK has been proactively developing alternatives to the existing portfolio that also meet future regulatory requirements. As part of this initiative, three new urea-based liquid rheology additives have now been developed, which are variants of known thixotropic agents:

Lithium chloride-containing additive	Lithium chloride-free variant	
RHEOBYK-7410 CA	RHEOBYK-7460 CA	For medium-polar solvent-based and -free systems
RHEOBYK-7420 CA	RHEOBYK-7470 CA	For aqueous and high-polar systems
RHEOBYK-D 410	RHEOBYK-D 7460	For medium-polar solvent-based and -free systems

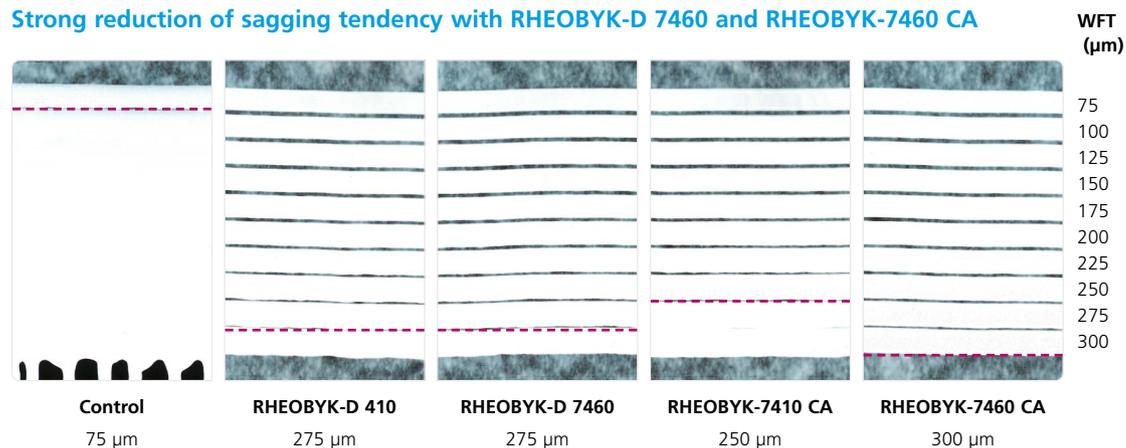
The lithium chloride-free variants work very similarly, but not completely identically.

By replacing the stabilizer, the new additives are lithium chloride-free. Like the existing products, they provide a strong thixotropic flow behavior and significantly reduce the sagging and settling tendency of the application systems.

Benefits

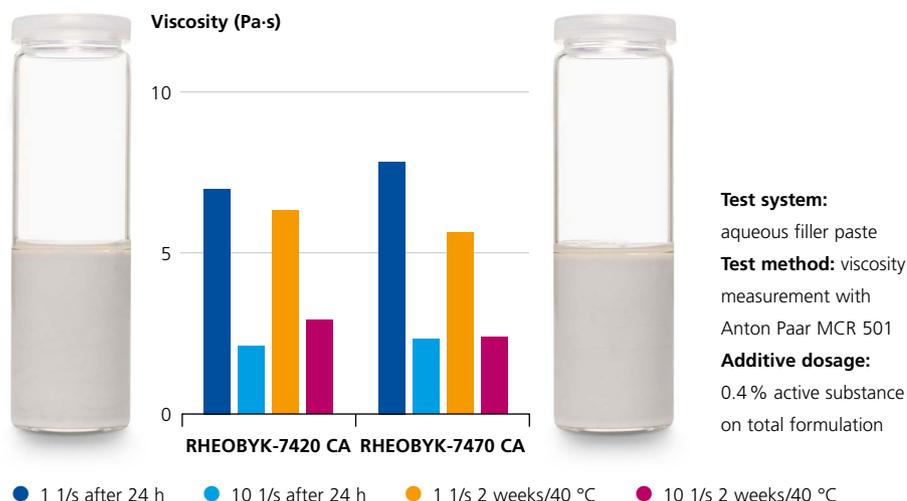
- For outstanding
 - Anti-sagging
 - Anti-settling
 - Storage stability in various systems and a wide range of applications
- Lithium chloride-free → for the most stringent regulatory requirements
- Liquid – easy to dose and handle

Strong reduction of sagging tendency with RHEOBYK-D 7460 and RHEOBYK-7460 CA



Test system: solvent-borne, saturated polyester topcoat based on Setal®1715 VX-74
Test method: application of 75–300 µm wet film by anti-sagging bar; vertical drying at room temperature
Additive dosage: 0.5 % active substance on total formulation

Very good anti-settling properties in a aqueous filler paste



High storage stability in an aqueous matt wood clearcoat



Technical data

RHEOBYK-7460 CA

- Solution of modified urea
- Density (20 °C): 1.07 g/ml
- Active substance: 43.4 %
- Solvents: Cyclic amide
- Flash point: 116 °C

RHEOBYK-7470 CA

- Solution of modified urea
- Density (20 °C): 1.01 g/ml
- Active substance: 47.7 %
- Solvents: Cyclic amide
- Flash point: 108 °C

RHEOBYK-D 7460

- Solution of modified urea
- Density (20 °C): 1.17 g/ml
- Active substance: 53.3 %
- Solvents: Dimethyl sulfoxide
- Flash point: 93 °C

Applications

	RHEOBYK-7460 CA	RHEOBYK-7470 CA	RHEOBYK-D 7460
Architectural coatings	■	■	■
General industrial coatings	■	■	■
Marine and protective coatings	■	■	■
Wood and furniture coatings	■	■	■
Floor coatings	■	■	■
Adhesives and sealants	■	■	■
Thermosets	■		■
PVC plastisols	■		■
Leather finishes and coated fabrics		■	
Lubricants and mold release	■	■	■
Home Care and I&I	■	■	



Your local contact

BYK-Chemie GmbH
 Abelstraße 45
 46483 Wesel
 Germany
 Tel +49 281 670-0

info@byk.com
 www.byk.com

ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, NANOBYK®, OPTIBENT®, OPTIGEL®, PURABYK®, RECYCLOBYK®, RHEOBYK®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information contained herein is based on our current knowledge and experience. No warranties, guarantees and/or assurances of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. Any information about suitability, use or application of the products is non-binding and does not constitute a commitment regarding the products' properties, use or application. Contractual terms and conditions, in particular agreed product specifications, always take precedence. We recommend that you test our products in preliminary trials to determine their suitability for your intended purpose prior to use. We reserve the right to make any changes and to update the information herein without notice.

Download our app:
byk.com/app

