

BYK-1742

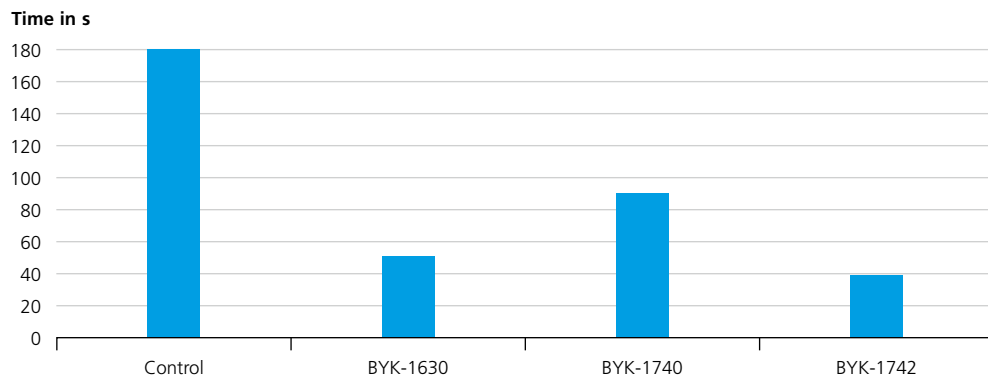
Bio-based defoamer for aqueous systems

Sustainable solutions and climate neutrality are gaining more and more attention worldwide. Today, users, processors, and formulators of coatings and adhesives expect more than just high-performance products – they want top-quality results, reliable process safety, and a responsible use of resources.

Foam can undermine these expectations by causing surface imperfections and thus bringing down product quality.

One way to make products more sustainable and less dependent on finite resources is the use of bio-based materials. Thanks to its intensive product and application research, BYK is pleased to offer its customers BYK-1742, a new bio-based defoamer for coating and adhesive applications.

Excellent spontaneous defoaming in architectural coatings



Test system: White paint based on VAE copolymer dispersion – PVC 58 %

Dosage and incorporation: 0.3 % as post addition, 3 min. at 2 m/s

Test method: Application by open-pored Moltopren roller; directly after application, timer was started and was then stopped once all foam bubbles had burst

Benefits

- Highly effective defoamer
- High content of bio-based raw materials
- For aqueous systems:
 - Emulsion paints in the medium- to high-PVC range
 - Epoxy floor coatings
 - Acrylic adhesives and sealants

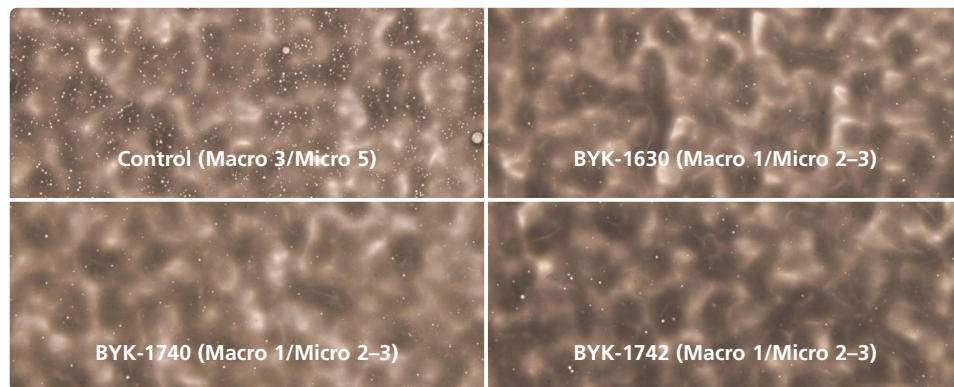
Applications

- Architectural coatings
- Floor coatings
- General industrial coatings
- Wood and furniture coatings
- Adhesives and sealants

Technical data

- Blend of vegetable oils with hydrophobic particles, containing polysiloxanes
- Density (20 °C): 0.95 g/cm³
- Non-volatile matter (10 min, 150 °C): 99.9 %
- Bio-based carbon content (ASTM D6866): 95 %
- Delivery form: liquid

Very good defoaming in architectural coatings

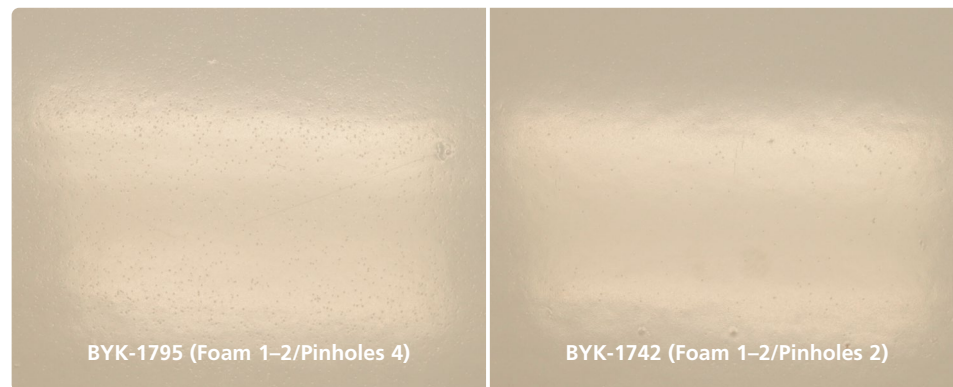


Test system: White paint based on styrene acrylic dispersion – PVC 61 %

Dosage and incorporation: 0.3 % as post addition, 3 min. at 2 m/s

Test method: Application by open-pored Moltopren roller; after drying, micro and macro foam were evaluated visually, 1 = no foam, 5 = a lot of foam

Good performance in aqueous epoxy floor coatings



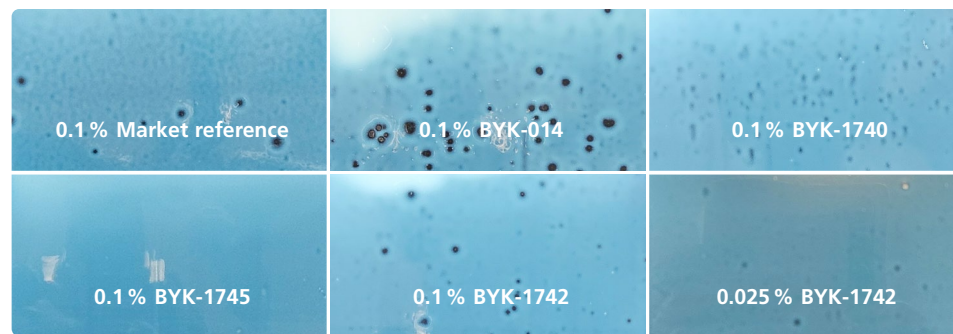
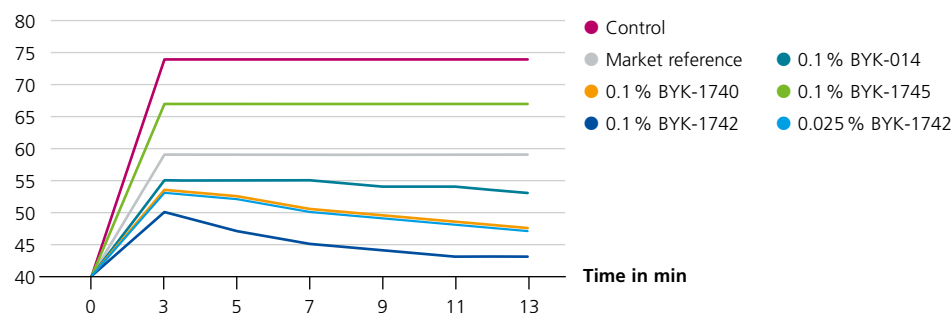
Test system: 2-pack epoxy, aqueous, topcoat for concrete, white

Dosage and incorporation: 0.5 % during grinding

Test method: Application with an application bar, 200 µm wet film thickness; after drying, foam and leveling were evaluated visually, 1 = excellent, 5 = very bad

Strong defoaming and balanced wetting at low dosage in acrylic adhesives and sealants

Foam level in mm



Test system: 99.9 % acrylic dispersion; **Dosage and incorporation:** 0.025 % or 0.1 % respectively, while stirring for 1 min at 1,000 rpm and 3 more min at 3,000 rpm

Test method: 40 g foam were poured into a graduated cylinder and the foam breakdown over time was evaluated; a 50 µm wet film was applied to PET and cratering was observed.



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®, NANOBLYK®, 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

