

BYK-1693 SD

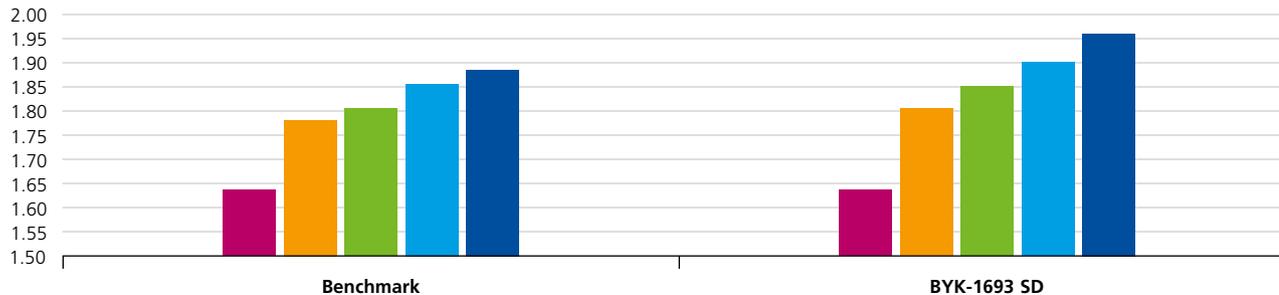
Bio-based, powdered defoamer for aqueous 2-pack building material formulations

Hybrid building material formulations usually consist of two components: the mineral-bound dry-mix mortar and an aqueous or powder dispersion. Mixing the two components creates a thixotropic flow behavior that stabilizes macrofoam and prevents the release of air voids. However, if these are too large or the amount is too high, this can lead to a reduction in density and can impair the application and mechanical properties, such as strength, and cause surface defects.

BYK-1693 SD is a new, very effective, powdered defoamer especially developed for hybrid systems based on mineral dry-mix mortars in combination with an aqueous or powder dispersion. The specific active ingredient combination of polymers and vegetable oils enables a strong and long-lasting defoaming performance over the entire processing time. The additive reduces the air void content and improves the properties of the fresh mortar as well as the physical properties of the hardened system. BYK-1693 SD is versatile and is particularly recommended for 2-pack waterproofing membranes.

BYK-1693 SD – Strong increase in the density of fresh mortar by reducing the air void content

Density (kg/l)



Additive dosage: ● 0.00 % ● 0.05 % ● 0.10 % ● 0.35 % ● 0.50 %

Test system: Dispersion-bound, cement-based 2-pack mortar, glass fiber-reinforced; additive dosage (as supplied) based on the total formulation

Test method: Measuring the density after stirring with low shear

Benefits

- Highly effective defoaming of hybrid systems
- Very good compatibility in different binder systems
- Strong and long-lasting defoaming performance
- Increased density of fresh mortar and the hardened system
- Increased flexural and compressive strength
- Optimum surface properties in the hardened system
- Easy dosage due to powder delivery form

- Silicone- and mineral oil-free
- VOC-free (< 1500 ppm)
- PFAS-free
- Proportionally from bio-based raw materials

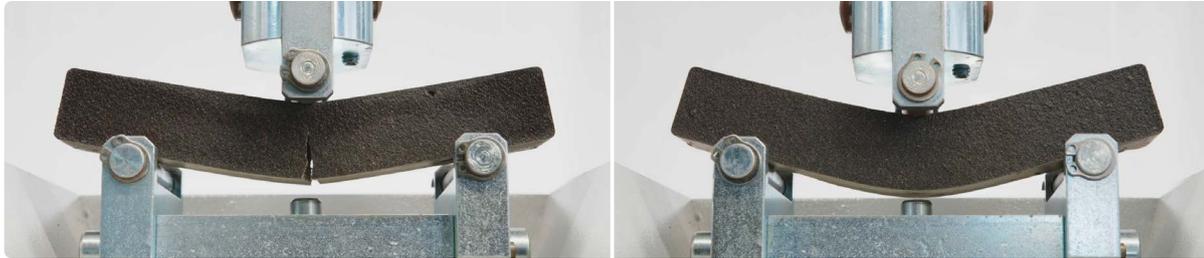
BYK-1693 SD – Reduced air void content in the cross section of hardened mortar



Test system: 2-pack putty, liquid dispersion with dry-mix mortar; 0.25 % additive (as supplied) based on the total formulation

Test method: Prisms coated with fluorescent paint; picture taken under UV light

BYK-1693 SD – Excellent flexibility of 2-pack waterproofing membranes



Control

BYK-1693 SD

Test system: 2-pack waterproofing membrane; 0.25 % additive (as supplied) based on the total formulation

Test method: Measuring flexural strength in accordance with DIN 1015-11



Technical data

- Bio-based carbon content (ASTM D6866): 54 %
- Bulk density: 250–450 kg/m³
- Carrier: inorganic
- Color: white
- Delivery form: powder
- Recommended dosage: 0.05–0.5 % additive (as supplied) based on the total formulation

Recommended use

- Waterproofing membranes (polymer cement mortar (PCM))
- Concrete repair mortar (polymer cement concrete (PCC))
- Jointing compounds and putties
- Tile adhesives
- Skim coats
- Leveling compounds (SLU/SLO)
- Screeds



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This issue replaces all previous versions.

