

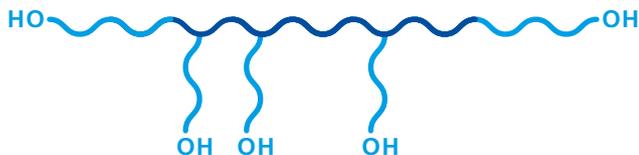
BYK-SILCLEAN 3725

PFAS-free, silicone-containing surface additive for a permanent easy to clean effect in aqueous coatings

For many years, BYK has been investing considerable research efforts and resources in replacing products containing per- and polyfluoroalkyl substances (PFAS) with more environmentally friendly alternatives. This is resulting in a sustainable, PFAS-free portfolio with versatile product properties for a wide range of applications.

The new BYK-SILCLEAN 3725 is one such additive. It is hydroxy-functional and, thanks to its special structure, highly effective in aqueous, crosslinking coating systems. In this type of application, it permanently improves the resistance to contamination by water- or oil-containing substances and the cleanability (easy to clean effect). It is therefore a perfect addition to the BYK-SILCLEAN product range.

Structure of BYK-SILCLEAN 3725



- Polysiloxane backbone, non-polar
- Hydrophilic modification, polar

Technical data

- Solution of polyether-modified polydimethylsiloxane, hydroxy-functional
- Density (20 °C): 0.97 g/cm³
- Non-volatile matter (10 min, 150 °C): 25 %
- Solvent: di-propylene glycol monomethyl ether
- Flash point: 78 °C
- OH value (active substance): 27 mg KOH/g
- Delivery form: liquid

Applications

- General industrial coatings
- Architectural coatings
- Automotive OEM coatings
- Floor coatings
- Marine and protective coatings
- Wood and furniture coatings
- Leather finishes and coated fabrics

PFAS-free!

Benefits

- PFAS-free and low cyclic siloxanes content
- Creates permanent properties such as
 - Hydrophobicity and oleophobicity for water- and oil-repellent coating surfaces
 - Reduced dirt adhesion to the coating surface and easier cleaning
 - Improved substrate wetting, leveling, and surface slip of coatings
 - Anti-blocking
- Very compatible in many aqueous systems

BYK-SILCLEAN 3725 in marker test – significantly improved cleanability



Reduced dirt adhesion (shoe polish) with BYK-SILCLEAN 3725



Test system: Aqueous acrylic melamine clearcoat with HVLP spray application on aluminum panels

Test method: Application of permanent marker or shoe polish on coated panels (before), followed by manual cleaning with a dry cloth (after).

Additive dosage: 4% additive (as supplied) based on the total formulation



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