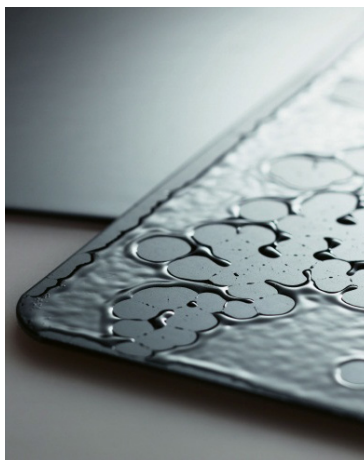


Alternatives to Fluorosurfactants

For various end applications such as Wood-, Architectural-, Industrial-, Automotive-, and Transportation Coatings



What are Fluorosurfactants

Many coatings formulators are now having to find alternatives to fluorosurfactants in anticipation of potential or increased regulations. This can be difficult due to the unique multifunctional properties and chemical stability of fluorosurfactants.

Fluorosurfactants and additives are relatively low molecular weight additives containing fully (per) or partly (poly) fluorinated carbon chains connected to different functional groups.

Beside high efficiency they are used to lower the surface tension of coatings to improve wetting of substrates. They can also improve the stain and chemical resistance of coatings and improve slip and mar resistance.

The portfolio of Evonik Coating Additives overcomes these challenges and provides various additives and technologies as alternatives for fluorosurfactants.

At a Glance

Broad applicability

- Consider several coating conditions, e.g. particularly pH-value, curing conditions and exposure temperatures
- Confirm whether alternatives can perform in highly acidic or basic conditions

Finding alternatives

- Consider all additive functionality needs for coating performance
- Additive combinations may be needed for optimum performance

Evonik Coating Additives recommendation

- Broad range of additive functionalities and chemistries that can give similar performance to fluorosurfactants, although 1:1 direct replacement may not be possible



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Evonik Coating Additives offers a broad range of additive functionalities and chemistries that perform comparably to fluorosurfactants, although 1:1 direct replacement may not be possible.

The following brand names are multi-functional: increasing efficiency, lowering surface tension, improving wetting, and preventing surface defects.

Formulating away from fluorosurfactants may require additive combinations



SYSTEM	SUBSTRATE WETTING & ANTI-CRATERING	FLOW & LEVELING	ANTI-BLOCKING	PIGMENT WETTING	ENHANCE OILY STAIN REMOVAL	ANTI DIRT PICK-UP	DEFOAMING
Waterborne	TEGO® Wet 238 TEGO® Twin 4100 TEGO® Wet 270	SURFYNOL® 420 TEGO® Glide 496 TEGO® Glide 450	TEGO® Glide 490 TEGO® Glide 492	CARBOWET® GA-100 TEGO® Dispers 656 ZETASPERSE® 3800	–	TEGO® Phobe 1659 TEGO® Protect 5100 N	TEGO® Airex 902 W TEGO® Foamex 825 TEGO® Foamex 812
Solventborne	TEGO® Glide 496 TEGO® Glide A116 TEGO® Glide 410	TEGO® Glide A116 TEGO® Glide 496 TEGO® Glide 130	TEGO® Glide 410 TEGO® Glide 496	TEGO® Dispers 650 TEGO® Dispers 670	TEGO® Protect 5000 N	TEGO® Protect 5001 TEGO® Protect 5000 N	TEGO® Airex 922 TEGO® Airex 944 TEGO® Airex 900

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