

Typical chemical and physical properties

ADDAPT[®] PolySurF HEOP is a solvent free UV-curable additive. It can also act as a co-polymerisable anionic surfactant and/or adhesion promoter.

It is a proprietary mixture of an Ethoxylated mono-and di-Phosphate ester; the reactive group being a Methacrylate.

Appearance	Clear liquid
Odour	Mild acrylic smell
Viscosity at 25 °C	max. 1750 mPa.s
Colour	Dark Brown
pH	1.6 to 2.0 (1% aqueous solution)
Density (20 °C; g/ml)	1.22 – 1.26
Active content	> 96.0 %
Tg	~ -20 °C for homopolymer

This information is intended as a guideline only. For specifications please consult the Certificate of Analyses.

Applications and typical treat level recommended

- Emulsions for paints, lacquers, printing inks and adhesives	ca. 1.0 - 3.5 % wt. based on monomers
- Adhesion promoter for metal (polyacrylates, polyesters)	ca. 3.0 % wt. based on monomers
- Flame retardant and adhesion promoter for UV curable systems	ca. 1.0 - 2.5% wt. based on monomers

Benefits

PolySurF HEOP promotes adhesion to metal, metal oxides, glass and ceramic surfaces.

It improves both the storage, mechanical, freeze/thaw stability and Gloss of an emulsion system, whereas grit building and foam formation is minimised.

No migration of the surfactant occurs after film formation

Paints and lacquers based on emulsions containing this “build-in” **anionic surfactant** show improved wet-scrub resistance, improved adhesion to metal and high yellowing resistance even after enamel application

The di-phosphate ester affords some degree of crosslinking without gel formation.

