

Typical chemical and physical properties

Solvent-free, UV-curable mixture of acrylated mono- and di-phosphate esters. It can also act as a polymerisable lipophilic non-ionic surfactant and/or polymerisable plasticizer PolySurF™ HPm has a higher mono-ester content compared to PolySurF™ HP.

Proprietary mixture of acrylated mono-and di-phosphate esters, where the reactive acrylate group is methacrylate.

Appearance	Liquid
Active content	> 99,5%
Phosphorus content	~13,5%
Density at 25°C	1,25 - 1,35 g/ml
Viscosity at 25°C	1250 - 3500 mPa.s
Acid number AV1	175 - 225 mg/KOH
Acid number AV2	250 - 360 mg/KOH
Colour	≤3,0 Gardner

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

Application and treat level

Markets	Emulsion polymerisation industry UV-Coating industry Ink industry
Applications	Radiation-curable metal primers and finishes Adhesives & bonding agents Pigment dispersants
Recommended dosage/usage	Emulsions for paints, lacquers, printing inks and adhesives 0,5 - 2,5 % wt. based on monomers Flame retardant for unsaturated polyesters and polyacrylates ~4,0 % wt. for flame retardant Adhesion promoter for metal (polyacrylates, polyesters) ~3,0 % wt. based on monomers Flame retardant and adhesion promoter for UV-curable systems 1,0 – 2,5 % wt. based on monomers

Suitable as Food contact material

Key benefits

- Readily biodegradable -- VOC free -- Solvent free -- PFAS Free -- Halogen free -- Free of MOSH/MOAH -- Free of silicone oils -

- It imparts excellent Levelling/Wetting and improves adhesion to metal surfaces in UV-curable systems.
- Addition of approximately 4,0%, results in a final P content of the flame-retardant polyester or polyacrylate of approx. 0,5 %.
- Effective plasticizer. No plasticizer migration occurs after through-cure.
- It improves both the storage and mechanical stability 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

Safety and Handling	Please read Safety Data Sheet (SDS) before handling.
Product Specification	This information is available on request through our local representative.
Packaging	This information is available on request through our local representative.
Storage	The product should be stored at a temperature of no less than 10 °C and no more than 25 °C and away from light. For more safety details read the Safety Data Sheet (SDS)
Quality Policy	The objective of our quality policy is the continuous fulfillment of the internal and external requirements agreed upon with our partners with regards to everybody's performance. ☐ The Quality System of ADDAPT® Chemicals BV is based on the principles of the NEN - EN - ISO - Standard 9001:2015.
Liabilities	<i>All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Notwithstanding any such recommendations, buyer or user remains responsible for satisfying himself that the products as supplied by us are suitable for his intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility thereof. Buyer has to ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with, and subject to, our general conditions of sale and supply.</i>

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