

Typical chemical and physical properties

ADDAPT® PolySurF HPH is a solvent-free UV-curable additive. It can also act as a polymerisable hydrophilic non-ionic surfactant and/or co-polymerisable plasticizer.

It is a proprietary mixture of Acrylated mono- and di-Phosphate ester; the mono-Phosphate ester being O-(EO)_{n>10}-CH₃ modified; where the reactive Acrylate group is Methacrylate

Appearance	Clear liquid
Odour	Sweet smell
Viscosity at 20 °C	< 350 mm ² /s (cSt)
Colour	max. 3 Gardner
pH	< 3.0
Phosphorus content	ca. 6.5 %
Active content	> 99.5 %

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
 - Polymerisable Plasticizer for polyacrylates, polyesters, PVC
 - Levelling/Wetting agent and Adhesion Promoter for metal for UV curable systems
- As surfactant: 0.5 - 2.5 % wt. based on monomers

Benefits

- Easy to handle liquid
- It imparts excellent Levelling/Wetting and improves adhesion to metal surfaces in UV-curable systems.
- It effectively improves the wetting of substrates like wood and metal as a monomer but also when incorporated in an emulsion.
- It improves both the storage and mechanical stability of an emulsion system, whereas grit building and foam formation is minimised.
- No migration of the non-ionic surfactant occurs after film formation
- Paints and lacquers based on emulsions containing this “build-in” **hydrophilic non-ionic surfactant** show improved wet-scrub resistance, improved adhesion to metal and high yellowing resistance even after enamel application.
- It has flame retardant properties and does not contain halogens.
- The di-phosphate ester affords some degree of crosslinking without gel formation.

ADDAPT[®] PolySurF HPH

Safety and Handling	Please read Material Safety Data Sheet (MSDS) 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	<p>The standard inhibition is 75 ppm MEHQ. The product should be stored at a temperature of no less than 10 °C and no more than 25 °C and away from light. It must be stored under air atmosphere, as the presence of oxygen is essential to activate the stabilizer.</p> <p>Under these conditions, the product is commercially guaranteed for six months after delivery.</p>

Quality Policy	<p>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.</p> <p>The Quality System of ADDAPT[®] Chemicals BV is based on the principles of the NEN-EN-ISO-Standard 9001: 2015.</p>
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Liabilities	<p><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></p>
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Publication Number PO86410
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Version 4: 2019

