ADDAPT Chemicals BV

Technical Data Sheet

PolySurf™ HPH
Functional Monomers

Article number: PO86410
Verification date: 01/08/2024
Version: 2

Product description
Solvent-free UV-curable additive. It can act as a polymerisable hydrophilic non-ionic surfactant and/or polymerisable plasticiser. It enables excellent mechanical stability, excellent polyvalent cation tolerance and very good inhibiting properties after polymerisation. It offers improved wetting on metal and wood substrates. It shows good compatibility with acrylic and methacrylic esters and provides good adhesion to all metal substrates.

Typical chemical and physical properties

Chemical nature	Mixture of methacrylated mono-and di-phosphate esters modified with hydrophilic moieties.	
Appearance	Liquid	
Active content	> 99,5%	
Phosphorus content	~ 6,5%	
Odour	Characteristic	
pH at 25°C	<3	
Viscosity at 25°C	<350	mPa.s
Acid number AV1	60 - 80	mg/KOH
Acid number AV2	100 - 125	mg/KOH
Colour	<3	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-coatings industry Ink industry
Applications	Radiation-curable wood- and metal primers and finishes Pigment dispersants Emulsions for paints, lacquers, printing inks, adhesives and bonding agents Polymerisable plasticizer for polyacrylates, polyesters, PVC Levelling & wetting agent and adhesion promoter for metal for UV curable
Recommended dosage/usage	As surfactant: 0.5 - 2.5 % wt. based on monomers

Key benefits

- Readily biodegradable -

• Excellent mechanical stability – non-migratory (EP).
• Emulsion co-polymerisable anionic surfactant.
• 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.
• Flame retardant booster which does not contain halogens.
• The di-phosphate ester affords some degree of crosslinking without gel formation.

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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

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.

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