

ADDAPT® PolySurF HEOP (Radiation) Curing Additive

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 - 1.26Active 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.







ADDAPT® PolySurF

HEOP

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 The standard inhibition is 750 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.

Under these conditions, the product is commercially guaranteed for

twelve months after delivery.

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.

ADDAPT Chemicals BV Speltdijk 1

NL-5704 RJ Helmond The Netherlands

Tel: +31 - 492 - 59 - 75 - 75 Fax: +31 - 492 - 55 - 29 - 55 E-mail: <u>info@addapt-chem.com</u>

Home page: http://www.addapt-chem.com

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