

Typical chemical and physical properties

ADDAPT[®] PolySurF ACE is a solvent free polymerisable additive. It imparts benefits like: acid resistance, high gloss, excellent pigment wetting, water repellence, film appearance, UV stability and improved adhesion to thermoplastics.

It is the Acrylic Acid adduct of the epoxy ester of Versatic Acid.

Appearance	Clear liquid
Odour	Acidic smell
Viscosity at 25 °C (Brookfield #2, 50 rpm)	< 300 mPa.s
Colour	max. 2 Gardner
pH	2.5 to 5.0
Tg of homo-polymer	0 °C
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	1.0 - 10.0 % wt. based on monomers, hydrophobicity, pigment wetting, gloss
- Synthesis of Acrylic polymers	5.0 – 15% wt
- UV-curable systems	5.0 – 10% wt.

Benefits

Easy to handle liquid due to the low viscosity

ADDAPT[®] PolySurF ACE improves adhesion to Polyolefin's, Polyethylene Terephthalate and Polyvinylchloride.

Via the Glycidyl ester of Versatic 10 acid (CARDURA[®] E10 moiety), a secondary hydroxyl functional group is introduced, which can be used for crosslinking with melamine or isocyanate resins (automotive topcoats).

Two-pack systems based on ADDAPT[®] PolySurF ACE containing polymers show a very good potlife because the reactivity of the secondary OH group is not too high.

The bulky hydrocarbon group of the Versatic acid provides steric protection to the cured polymer against hydrolysis (good acid resistance), water repellence (hydrophobicity), and good gloss retention and provides excellent pigment wetting.

ADDAPT[®] PolySurF ACE can easily be copolymerised with other acrylic monomers and Styrene.

ADDAPT[®] PolySurF ACE is a very effective co-polymerisable defoamer for water based UV-curable systems where migration of the defoamer is undesirable.

ADDAPT[®] PolySurF ACE

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 150 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 three 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>
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The Quality System of ADDAPT[®] Chemicals BV is based on the principles of the NEN-EN-ISO-Standard 9001:2015.

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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