ADDAPT
Chemicals BV

for tomorrow's
Technology

ADDAPTOL™ DB

Coalescing Agent
Oxygenated Solvent
Non-VOC

for tomorrow's
World

Typical chemical & physical properties

ADDAPTOL™ DB is a non-VOC oxygenated solvent for use as a coalescing agent in Waterborne systems and tail solvent in Solvent borne systems. It is a proprietary mixture of branched esters of dibasic acids (all components are EINECS registered).

Physical properties	Values
Appearance	Clear liquid
Colour	max. 100 (Pt-Co)
Odour	Typical
Viscosity at 25°C, mPa.s (Brookfield #2, 50 rpm)	< 50
Vapour pressure (kPa at 20°C)	< 0.01
Density (25°C; g/cm^3)	0.93 - 1.01
Boiling point °C	> 275
Freezing point °C	- 55

Applications

Functions	Applications
Solvent in industrial cleaners	Ink cleaners Graffiti removers Paint strippers Hard surface cleaners Floor wax strippers Carpet shampoos
Coalescing agent in water-borne coatings	Industrial coatings Coatings for constructions industry Decorative coatings
Solvent in polymer applications	Tail solvent Oil field chemicals Unsaturated polyester resin & PU cleaners

Solvents that can be replaced by ADDAPTOL™ DB

- Ethyl ethoxy propionate
- Benzoic acid esters
- Pentanediol esters
- Butyldiglycol acetate
- Propylene glycol methyl ether acetate
- Terpenes
- High-boiling glycol ethers
- High-boiling ketones
- High-boiling aromatics
- Isophorone

Applications in coatings

ADDAPTOL™ DB is used as a coalescing agent in water based coatings. Characteristic criteria for the use of ADDAPTOL™ DB are:

- Hydrolytically stable;
- Low odour;
- Extended open time;
- Better water resistance of the dried coating;
- Better scrub resistance due to more complete coalescence of hard polymers and less affinity to water than other coalescing agents.

ADDAPTOL™ DB is also used in floor lacquers, coatings for concrete surfaces and other coatings where high performance is needed.

Benefits of ADDAPTOL™ DB

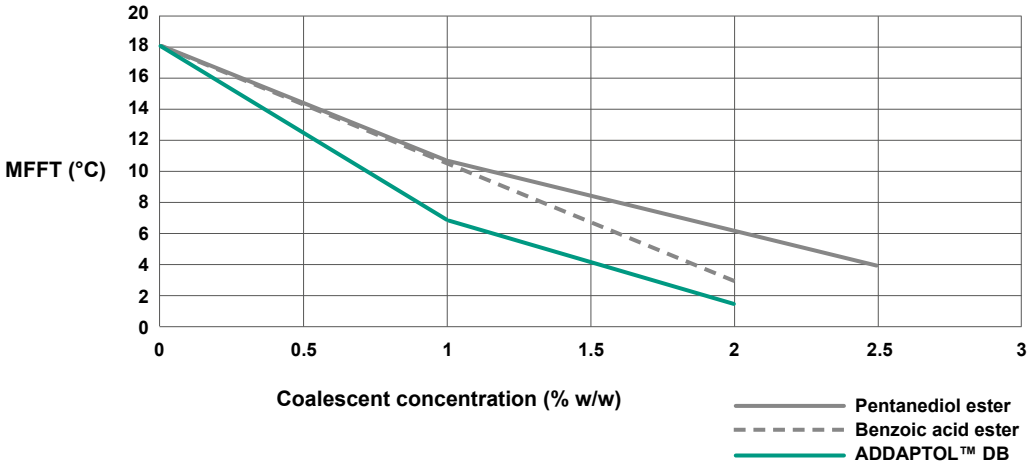
ADDAPTOL™ DB is biodegradable and has a high thermal, hydrolytic and pH-stability. Compared with 2,2,4-Trimethylpentanediol mono-isobutyrate, ADDAPTOL™ DB shows the following improved characteristics in Waterborne coatings:

- Low odour;
- Improved Wet Scrub Resistance;
- Lowering of MFFT.

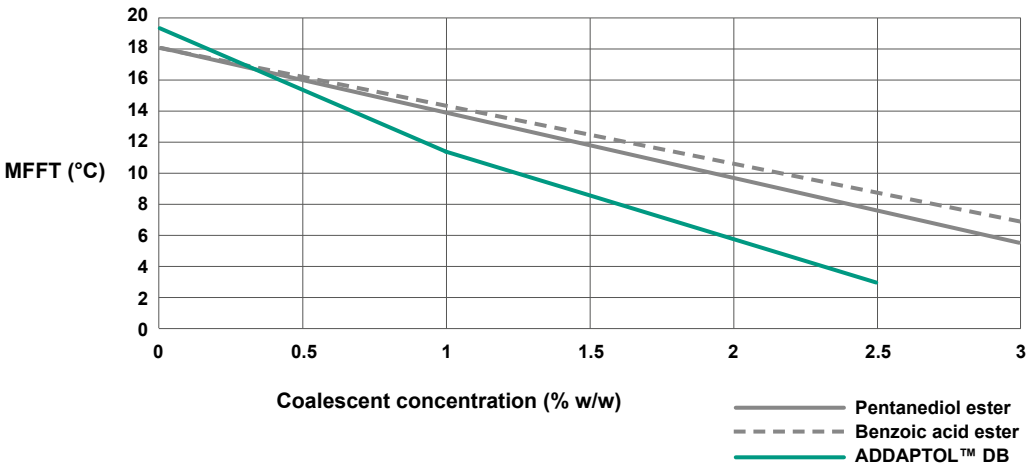
In Solvent borne systems ADDAPTOL™ DB has the following advantages:

- Excellent tail solvent;
- Improved levelling and pinhole resistance.

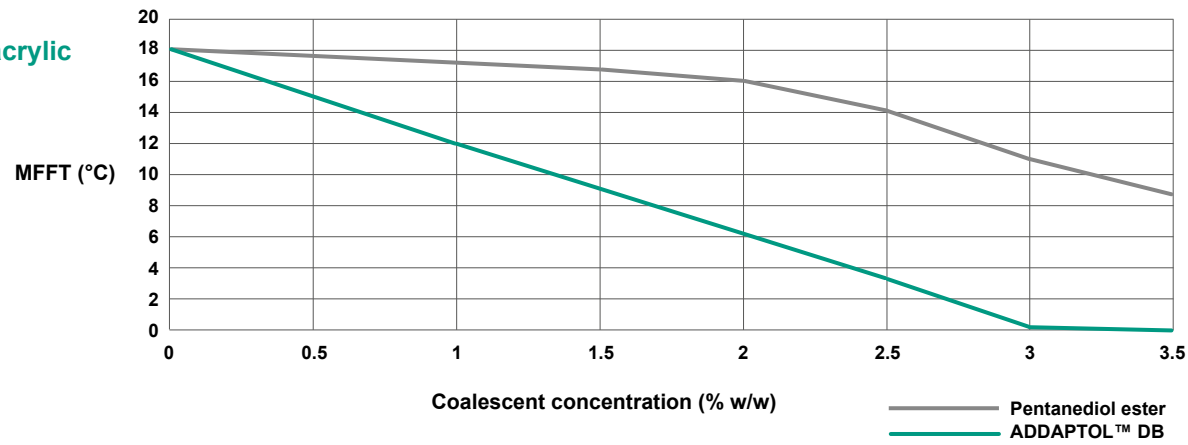
MFFT curve for typical VA polymer



MFFT curve for typical pure acrylic polymer



MFFT curve for typical styrene/acrylic co-polymer



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Liability
All recommendations for the use of our products, whether given by us in writing, oral, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Under no circumstances shall Seller be liable for incidental, consequential or indirect damage for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with product(s). Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has/have not been tested for, and is/are therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin or blood is intended, or for uses for which implantations within the human body is intended.