



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

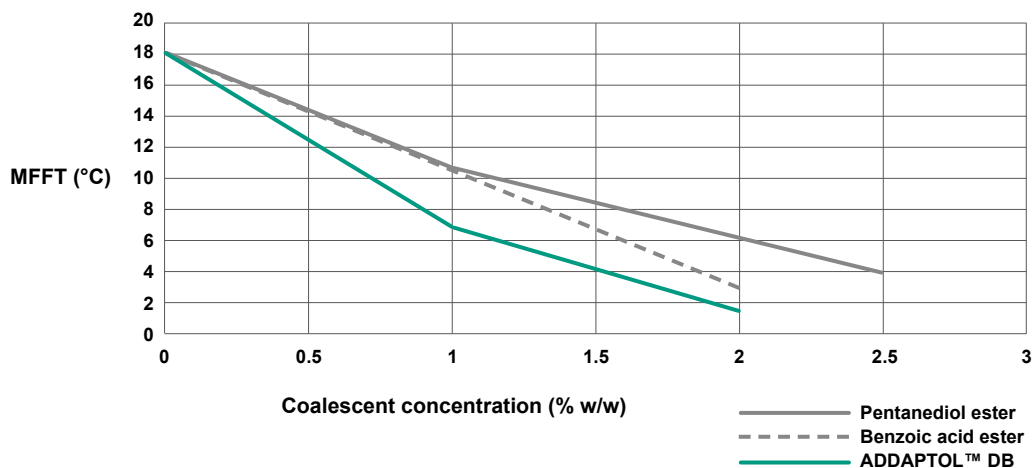
ADDAPTOL™ DB is biodegradable and has a high thermal, hydrolytic and pH-stability. Compared with 2,2,4-Trimethylpentanediol mono-isobutyrate, ADDAPTOL™ DB shows the following improved characteristics in Waterborne coatings:

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

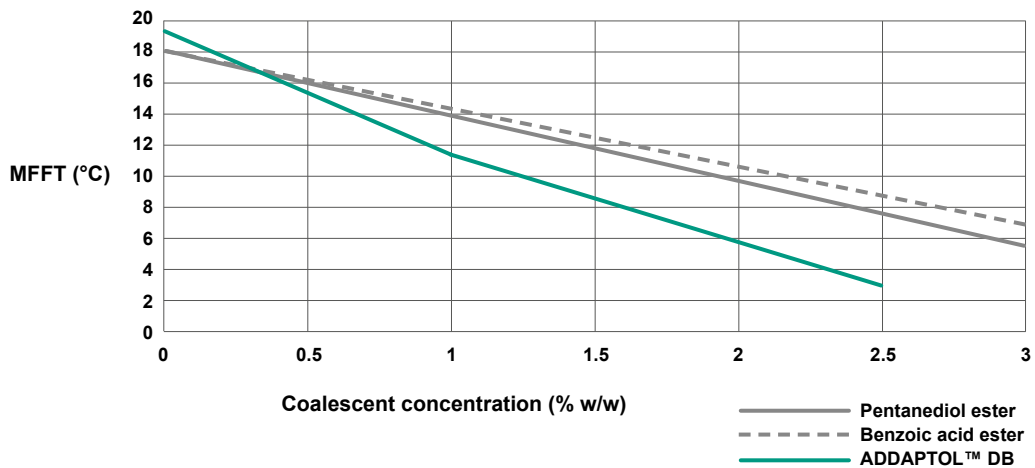
In Solvent borne systems ADDAPTOL™ DB has the following advantages:

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

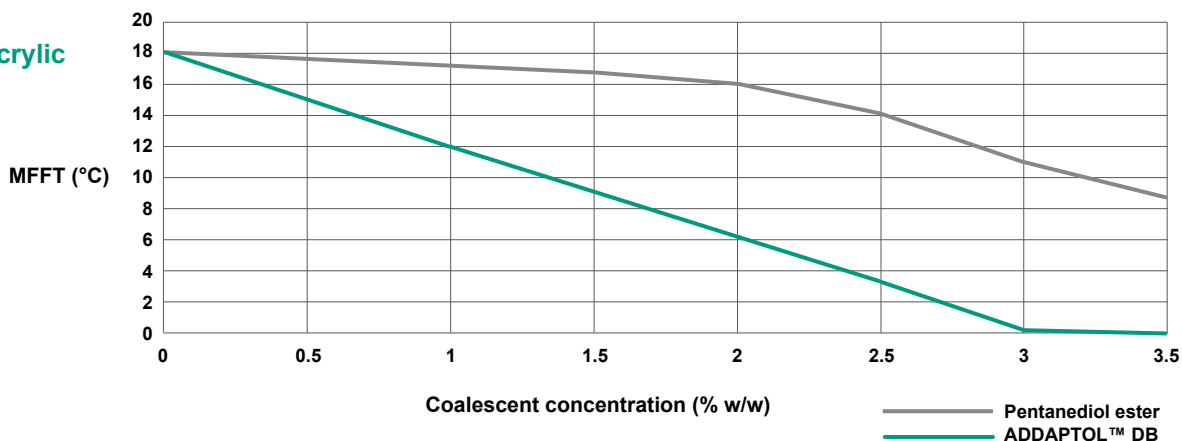
MFFT curve for typical VA polymer



MFFT curve for typical pure acrylic polymer



MFFT curve for typical styrene/acrylic co-polymer



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