

EXOwet Series

EXOWet Series – tank mix adjuvants

Wetting agents play a crucial role in crop spraying. Thanks to their amphiphilic structure and small, mobile molecules, they migrate efficiently to liquid–solid and liquid–gas interfaces, where they lower surface tension in aqueous solutions.

This function is particularly important during the milling of suspension formulations (SC and FS): wetting agents reduce suspension viscosity, enhance grinding efficiency and prevent premature wear of the bead mill.

The EXOWet product series can also be used as standalone tank adjuvants; their addition improves spray formation, retention and leaf coverage. Enhancing these spray properties translates into more effective treatments or the same efficacy at lower doses of plant protection products.

Action of EXOWet:

- decreases a surface tension of a working fluid,
- causes spreading of a liquid drop contributing to perfect wetting of a leaf surface,
- improves coverage of a leaf surface by sprayed agrochemicals,
- causes retention of liquid droplets on plants,
- facilitates substances penetration into a plant,
- prevents washing of agrochemicals by rain and dew.

Advantages

- excellent wetting properties,
- reduces the surface tension of the spray liquid, allowing it to spread,
- increases spraying efficiency,
- faster absorption of substances by penetrating the cuticular wax.

Benefits

- lower pesticide doses, which:
 - contribute to cost reduction of crop protection,
 - reduce a negative impact on the environment.

Spray coverage test performed using a spray chamber on water-sensitive paper.

with wetting agent



without wetting agent



Physical and chemical properties of wetting agents

EXOwet	D15	L5	T7	A7W	N5	R3823	R3831
Appearance at (20-25)°C	colorless liquid	clear or slightly turbid liquid	clear or slightly turbid liquid	clear or cloudy liquid	clear or slightly turbid liquid	liquid	liquid
pH	4.5 – 7.5 (1% solution B)	4.6 – 7.4 (1% solution B)	5.0 – 7.0 (1% solution B)	5.0 – 7.0 (1% solution B)	5.0 – 7.0 (1% solution B)	4.0 – 7.0 (5% solution C)	4.0 – 7.0 (5% solution C)
Solubility in water	very good	very good	limited, creates turbid solutions	good	good	good in cold water	good in cold water
Other solvents	methanol, acetone, methyl ester	acetone, ethyl ether	acetone	low aliphatic alcohols, acetone, ethyl ether	methanol, acetone	methanol, acetone	methanol, acetone
Flash point [°C]	>200	>120	>200	>170	>200	>200	>200
Density [g/cm³]	approx. 0.99 (at 25°C)	approx. 0.97 (at 25°C)	approx. 0.97 (at 30°C)	approx. 0.95 – 1.00 (at 30°C)	approx. 0.98 (at 25°C)	approx. 1.02 (at 25°C)	–
Melting point/ freezing point [°C]	approx. -20	approx. 0	approx. 2	–	approx. 3	< -20	approx. -20
Viscosity [mPa·s]	approx. 65 (at 20°C)	approx. 40 (at 20°C)	approx. 130 (at 20°C)	approx. 120 (at 20°C)	approx. 40 (at 25°C)	–	–
Application range	50 ml/100 l of working fluid	0.05 – 0.5%	0.05 – 0.5%	0.05 – 0.5%	0.05 – 0.5%	0.5 – 1.0%	0.5 – 1.0%

Application:

EXOwet series can be used with crop protection products for which it is recommended to use wetting agents. EXOwet L5 and T7 are specially recommended to use with foliar fertilizers.





PCC Exol SA
Sienkiewicza 4
56-120 Brzeg Dolny, Poland
products@pcc.eu

Please visit our capital group business platform:
www.products.pcc.eu



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Information in this catalogue is believed to be accurate and to the best of our knowledge, but should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

Suggestions for product applications are based on the best of our knowledge.

The responsibility for the use of products in conformity or otherwise with the suggested application method and for determining product suitability for your own purposes rests with the user.

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