

Technical Data Sheet



PENETRANT - DISPERSANT

Agrex®RP

GENERAL INFORMATION

Category	Coadjuvant, Penetrant, Dispersant, and Antifoaming Agent
Guarantee of composition	Composition _____ %w/w Surfactants _____ 20,30% Diluents and Conditioners _____ 69,80% Total _____ 100.00%
Key feature	Agrex®RP is an agricultural adjuvant that works in two ways thanks to its surfactants: Firstly, it improves the efficiency of agrochemicals and fertilizers that are applied in irrigation water before and after crop establishment. Secondly, the surfactants facilitate water permeability in the soil, improving the moisture bulbs needed by plant roots.
Manufacturer/ Formulator/ Distributor	IQ Chemicals & Labs S.A. de C.V. IQ Chem & Labs S.A. de C.V. Agroenzymas México S.A. de C.V.
Registration	In accordance with the regulations of the law, as of March 28, 2005, co-adjuvants do not require registration with COFEPRIS.

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MODE OF ACTION AND EFFICACY:

Agrex®RP. Surfactants that, when applied to irrigation water, generate greater uniformity of water wetting in the soil, which consequently has a positive effect on the distribution of fertilizers and/or phytosanitary ingredients. It also contributes to the good condition of irrigation lines, tapes, drippers, and multi-cycle hoses thanks to its deflocculating action, which prevents clogging due to the accumulation of salt or sediments. Due to their contents, they offer the following benefits:

- **Generates greater uniformity of wetting.** High-efficiency penetration and dispersion achieved using polyethoxylated fatty acid esters of natural origin and non-ionic surfactants. Surfactants allow penetration, especially of low-polarity compounds. They reduce surface tension and therefore maximize the contact area, facilitating transport and penetration into the soil. By slowing down the evaporation rate of the aqueous phase of the solution after spraying, contact time is increased, which also improves the transport of the active substance.
- **Reduces clogging.** Due to its deflocculating (dispersing) action, the degradation of the bonds between cations or salts is high, which allows the accumulation of "scale" in the hoses or pipes to degrade and be cleaned.
- **Immediate anti-foaming effect.** High-powered antifoaming agent, which allows for an immediate effect after application.
- **Safe handling and other benefits.** The surfactants and conditioners used in **Agrex®RP** are EPA approved. The heavy metal values in the formulation are well below the APPFCO limits for Washington and Canada.
- **Long shelf life.** The composition and properties are guaranteed to remain constant throughout its shelf life.
- **Total solubility.** Allows for easy handling of the product.

METHOD OF APPLICATION:

In drip irrigation, **Agrex®RP** is applied at a rate of 2 liters per hectare in the first irrigation to open the bulb and then maintenance treatment is given with applications of 0.25 L/ha in each irrigation. If there are problems with moisture distribution, it is recommended to increase the dosage by 1 L/ha for each irrigation; in very compacted soil, the recommendation increases to 2 to 3 L/ha at the beginning and during the crop cycle.

For rolling or gravity irrigation, the dose is 2 L/ha, and if the soil has obvious problems with lack of moisture, 2 to 5 L/ha per hectare is recommended.

EFFECTS ON CROPS:

Agrex®RP due to its dispersing and penetrating capacity, has a favorable impact on soil permeability. This allows for the proper distribution of fertilizers, insecticides, etc., promoting their adequate activity. In addition to the above, the distribution of wet bulbs increases in sandy, loamy, and clay soil. It can be used to clean irrigation tapes or systems.

SPECIAL PRECAUTIONS:

Follow the recommendations for use of the product:

- Do not pour the product directly onto water bodies or areas where runoff occurs.
- Dispose of empty containers and product residues in accordance with local regulations.
- Follow good agricultural practices.
- Do not dispose of empty product containers or packaging on the ground, in rivers, lakes, lagoons, or other bodies of water.
- Do not pour leftover product or water used to wash application equipment onto soil, into rivers, lakes, ponds, or other bodies of water.

GENERAL RECOMMENDATIONS:

Shake well before use.

Add during the first third of irrigation so that the water bulb moves through the soil.

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COMPATIBILITY:

It can be mixed with all agricultural products with valid registration, as it does not present compatibility issues; on the contrary, it facilitates compatibility between agrochemicals.

PHYTOXICITY:

It is not phytotoxic at the recommended doses and handling.
It can be mixed with most agricultural products, as it does not present compatibility problems.

DRIP IRRIGATION				
Agrex®RP dosage: 1 L of Agrex®RP per 1000 m ³ of water				
Rolling irrigation				
Hectares irrigated	ARENOSO/ 1L Agrex®RP		ARCILLOSO/ 1 L Agrex® RP	
	L of Agrex® RP within 24 hours	mL of Agrex® RP per minute	1L of Agrex®RP within 24 hours	ml of Agrex®RP per minute
1	1	0,69	2	1,28
2	2	1,38	4	2,76
3	3	2,07	6	4,14
4	4	2,76	8	5,52
5	5	3,45	10	6,90
6	6	3,14	12	8,28
7	7	4,83	14	9,66
8	8	5,52	16	11,04
9	9	6,21	18	12,42
10	10	6,90	20	13,80