Schelkovo Agrohim
Zavodskaya street 2
141108 Schelkovo
Russia
+7 495 745 0551, 745 0198
info@betaren.ru

Polaris, ME

microemulsion

prochloraz 100 g/l + imazalil 25 g/l + tebuconazole 15 g/l

Fungicidal seed treatment intended for pre-planting treatment of cereal seeds.

Advantages:

— Highly effective at reduced concentration of the active ingredient due to innovative formulation ME

— Formulation as microemulsion ensures maximum penetration of active ingredients into the seed, and powerful and prolonged protection during vegetation period

— Wider spectrum of action than that of most seed disinfectants due to combination of three active ingredients

— Highly efficient for pre-planting treatment of seeds and local soil disinfection

— Stronger effect against snow mold

— Bio-activator contained in the preparation has a growth-stimulating action: promotes coleoptiles development and formation of a robust root system

— Higher resistance to drought and frost

Action

Mode of action

The preparation contains three active ingredients - prochloraz, imazalil and tebuconazole supplementing each other and demonstrating pronounce synergy. It is highly efficient both against seed and soil infections affecting cereal crops at earlier stages of development.

Prochloraz is referred to the group of imidazols and has a local systemic action. It is apt for shallow penetration into a seed to disinfect it against fungi that intrude seed covers and aleurone layer.

Imazalil has a local systemic action and protects roots. Imazalil inhibits synthesis of ergosterol that has effect on permeability of pathogen cell membranes.

Tebuconazole has a systemic translocating action and protects the plantlet. Tebuconazole inhibits biosynthesis of sterol in pathogenic organisms, which results in changes in the membrane (its permeability), reduced reproduction and, eventually, death of the pathogenic cell.

Protective period

Bio-effect lasts from seed sprouting stage to tubing stage and until appearance of a flag of cereal crops. Due to its systemic effect, the preparation is efficient against surface and internal seed infection, and a number of disease excitants affecting the plant during a later vegetation period.

Speed of action

High. Fungicidal effect may be observed in 2 to 4 hours after seed treatment.

Spectrum of action

Brown rust, Helminthosporium root rot, stone smut, false dust-brand, oidium, seed molding, dust-brand, rhizoctonia radical rot, Septoria blight, netted spotting, stinking smut, Fusarium root rot, Fusarium snow mold, Cercosporella crown rot, etc.

POLARIS, ME HELPS FORM A ROBUST ROOT SYSTEM

The seed disinfectant shall be used even if there are no diseases, as this has a positive effect on growth and development of the root system and vegetative mass due to growth bio-activator contained in the preparative form.

Usage regulations

Crop	Harmful object	Consumption rates of product, l/t	Consumption rates of working liquid, l/t	Method, time, features of application. Timeframes for the start of manual (mechanized) work, days	Safety interval, days (number of applications)
Spring and winter wheat	Dust-brand, Fusarium root rot, Helminthosporium root rot, powdery mildew (at earlier stages), seed molding, including Alternaria seed infection	1.2-1.5	10	Treatment of seeds beforehand or immediately before sowing -(-)	-(1)
	Stinking smut	1.0-1.2			
Winter wheat	Snow mold, Rhizoctonia root rot	1.2-1.5			
Spring barley, including malt barley	Dust-brand, false dust-brand, Fusarium root rot, Helminthosporium root rot, netted spotting, seed molding, including Alternaria seed infection	1.2-1.5			

Stone smut	1.0-1.2

Application technique. Mix preparation method

Prepare the mix immediately before seed treatment.

Fill the tank with water and add the required preparation dose while continuously stirring.

Seeds shall be treated using treatment units intended for liquid preparations. Prepare the mix and treat seed in centralized treatment stations.

Phytotoxicity

No phytotoxic effect when used in recommended doses.

Potential for resistance

Where recommended doses and preparation application technique are met, resistance of pathogenic organisms is unlikely to occur.

General information

Chemical class

imidazoles, triazoles

Transport and storage conditions

Keep the preparation in a room dedicated for pesticide storage. Storage temperature range - minus 10 C to plus 30 C

Shelf life

5 years.

Hazard class

Hazard class 2, high danger

Packing

5 liter PE container

Registrant

Schelkovo Agrohim , Russia

Manufacturer

Schelkovo Agrohim, Russia