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Titul 390, CSC

colloid concentrate solution

propiconazole 390 g/l

Systemic fungicide against a wide range of diseases on plantings of cereal crops, sugar beet, rapeseed, grape.

Advantages:

- Basic protection in conditions of a moderate infectious background
- High penetration rate to the source of infection and a powerful therapeutic effect
- Long-term protective activity up to 40 days
- The drug from the Eco Plus series with increased biological effectiveness against a complex of diseases
- Profitability of the hectare application rate
- A practical solution for a farm with a wide range of crops
- Aerial treatment allowed

Action

Mode of action

The preparation penetrates plants through leaves and stalks and moves in an acropetal way. It produces a fungicidal effect of vegetative organs of fungi and inhibits sporogenesis. It inhibits synthesis of ergosterol regulating permeability of the cell membrane.

Protective period

Minimum 3 or 4 weeks.

Speed of action

Visible signs appear in 3 to 7 days.

Spectrum of action

Alternaria blight, American oidium, anthracnose, Ascochyta blight, brown spot, Helminthosporium blight, Helminthosporium spot, oidium, olive mold, spotting, brown rust, yellow rust, stem rust, crown rust, Rhynchosporia blight, Septoria blight, gray rot, Phoma rot, Fusarium blight of the head, Cercosporella spot, Cercospora blight, etc.

Usage regulations

Crop / object of treatment	Harmful object	Preparation consumption rate, l/ha	Mix consumption rate, l/ha	Method, time and conditions of application	Wait time (application frequency)

Spring and winter wheat	Oidium, brown rust, stem rust, yellow rust, Helminthosporium disease, Septoria blight, Fusarium blight of the head	0.26 0.26(A)	200-400 50 (A)	Treatment during vegetation (except Fusarium blight of the head) at 'flag – start of ear formation' stages, against Fusarium blight of the head – end of ear formation to start of blossoming	30(1-2)
Spring and winter barley	Helminthosporium disease, oidium, rust	0.26 0.26(A)	200-400 50(A)	Treatment during vegetation period	30(1-2)
Winter rye	Brown rust, stem rust, Septoria blight, Rhynchosporia blight, Cercosporella spot, oidium, olive mold	0.26 0.26(A)	200-400 50(A)	Treatment during vegetation period	30(1-2)
Sugar beet	Cercospora blight, oidium, Phoma rot	0.26 0.26(A)	200-400 50(A)	Treatment during vegetation as first signs of disease appear, then, when necessary, every 10-14 days	40(1-2)

Winter rapeseed	Alternaria blight, Phoma rot	0.26-0.32 0.26-0.32 (A)	200-400 50 (A)	Treatment during vegetation: 1st – in autumn at rosette stage after 6-8 leaves, 2nd – first signs of disease at stage of stem elongation – start of seedpod formation at lower tiers of plants	60(2)
Spring rapeseed	Alternaria blight, Phoma rot	0.26-0.32 0.26-0.32 (A)	200-400 50 (A)	Treatment during vegetation at first signs of disease at stage of stem elongation – start of seedpod formation at lower tiers of plants.	60(1)
Grapes	Oidium, gray mold	0.15-0.25	600-1200	Treatment during vegetation: 1st – preventive at visible inflorescence formation stage, then every 10-14 days	30(4-6)

(A) - aerial spraying

Product application features

Spraying is carried out in dry, windless weather in the morning or evening hours, when there are no rising air currents, and the temperature and humidity are close to optimal.

Optimal results are achieved under the following conditions:

• at the ideal time of use, when infection has already occurred, but the disease is still at a very early stage of development;

• at a comfortable air temperature during the period of application of the fungicide.

Titul 390 is equally effective at both high and low air humidity.

Do not use the product when the crop is under stress due to pests,

frost, or heavy rains.

Application technique. Mix preparation method

Prepare the mix immediately before use.

Fill 10-20 l of water into an auxiliary vessel (bucket, tank), add the required preparation dose to achieve auxiliary solution concentration of about 10%, and stir manually for 0.5-1 min. Pour the resulting mix into the sprayer tank (or refilling unit) filled with water to 1/2. Rinse the empty vessel three times with water and pour it into the sprayer (or refilling unit) as well. Add the required amount of water. Stir the mix thoroughly.

Prepare the mix and fill the sprayer on dedicated sites, fill the refilling unit on fixed refilling stations (SEZ-10) that all are disinfected afterwards.

For ground treatment, use ground-based boom sprayers OP-2000-2-01, or any other spraying equipment.

For aerial treatment – An-2 plane or Mi-2 helicopter.

Sprayers shall be setup, adjusted and spray nozzles installed in accordance with the Operation Manual for aircraft based spraying equipment.

Perform treatment in a zero wind weather in the morning or evening where there are no rising gusts, and temperature and humidity are close to optimal values.

Compatibility with other pesticides

Compatible with most fungicides. Check for compatibility before use in mixes with other plant protective chemicals.

Potential for resistance

None.

Phytotoxicity

Do not use the preparation when the crop is under stress due to pest attack, frost, or heavy rains.

Recommendations on protection of valuable flora and fauna objects

The preparation is of low hazard to bees, fish, and cattle – Hazard Class 3.

Basic provisions of the 'Guidelines for preventing bee poisoning with pesticides' and following environmental regulations:

For ground and aerial treatment:

treat plants in morning and evening;

treat plants at wind speed up to 4 or 5 m/sec;

protection boundary zone for bees – min. 2-3 km;

bee's flight time limitation – 48 hours.

Warn apiary owners 4 or 5 days before treatment.

The preparation may be applied by the aerial method within the sanitary zone of fishery water bodies.

General information

Transport and storage conditions

Comply with all conventional rules of toxic substance transport. Keep the preparation in a room dedicated for pesticide storage. Storage temperature range – minus 10 C to plus 35 C. Stir before use.

Shelf life

5 years

Hazard class

Hazard class 3, moderate hazard

Packing

5, 10 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia