

# Insure Cereal FX4 seed treatment technology sheet

## Even stronger broad-spectrum protection plus Plant Health Benefits<sup>1</sup>.

- Four modes of effective action to deliver broad-spectrum protection against key seed- and soil-borne diseases, including three active ingredients targeting fusarium
- The addition of Xemium<sup>®</sup> delivers unique mobility and translocation characteristics for consistent and continuous disease protection<sup>2</sup>
- Plant Health Benefits** offer greater germination for improved emergence and enhanced seedling vigour, including better management of minor stress<sup>2</sup>
- Formulated for reduced viscosity and optimized usability

### Active ingredients

Triticonazole – Group 3  
Metalaxyl – Group 4  
Fluxapyroxad – Group 7  
Pyraclostrobin – Group 11

### Formulation

Water-based suspension

### One case contains

2 x 9.8 L jugs  
Also available in 120 L drum or 450 L tote

### Storage

Requires heated storage.

### Increased seedling vigour with Insure Cereal FX4



Raxil<sup>®</sup> PRO

Insure Cereal FX4

Source: BASF AgSolutions<sup>®</sup> Performance Trials, Cut Knife, SK, 2021

### Crops

Wheat (all types), barley, oats, triticale, rye, canary seed<sup>3</sup>

### Treatment

Standard slurry, gravity flow or mist-type seed treatment

### Diseases controlled and suppressed by Insure<sup>®</sup> Cereal FX4 seed treatment

		Wheat	Barley	Oats
<i>Fusarium spp.</i>	Seed rot	C	C	C
	Damping-off (pre- and post-emergent)	C	C	C
	Seedling blight	C	C	C
	Root rot	C	C	C
	Crown rot	S	S	S
	Foot rot	S	S	S
<i>Cochliobolus sativus</i>	Seed rot	C	C	C
	Damping-off (pre-emergent)	C	C	C
	Seedling blight	S	S	S
	Root rot	S	S	S
<i>Rhizoctonia solani</i>	Seed rot	C	C	C
	Damping-off (pre- and post-emergent)	C	C	C
	Seedling blight	C	C	C
	Root rot	C	C	C
<i>Pythium spp.</i>	Seed rot	C	C	C
	Damping-off (pre- and post-emergent)	C	C	C
	Seedling blight	C	C	C
	Root rot	C	C	C
Smuts/bunts	Loose smut ( <i>U. avenae</i> and <i>U. tritici</i> )	C		C
	Common bunt	C		
	True loose smut		C	
	Covered smut ( <i>U. hordei</i> and <i>U. kolleri</i> )		C	C
	False loose smut		C	

S - Suppression C - Control

<sup>1</sup> Plant Health Benefits refer to products that contain the active ingredient pyraclostrobin.

<sup>2</sup> All comparisons are to untreated, unless otherwise stated.

<sup>3</sup> Including food use.

**BASF**

We create chemistry

# Insure® Cereal FX4

Seed Treatment

Increased seedling vigour in wheat,  
34 days after seeding

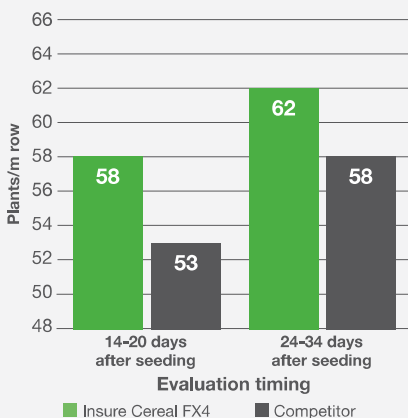


Raxil® PRO

Insure Cereal FX4

Source: BASF Research Authorization Trials, Dauphin, MB, 2018

Average plant stand count



Source: BASF AgSolutions Performance Trials, Western Canada, 2018-2021, n=21

## For more information:

Call **AgSolutions** Customer Care  
at 1-877-371-BASF (2273)

Visit [agsolutions.ca](https://www.agsolutions.ca)

## Application rates

The application rate for Insure Cereal FX4 seed treatment is 300 ml per 100 kg of seed.

Crop	Bushels (bu) per case	Bushels (bu) per 120 L drum	Bushels (bu) per 450 L tote
Barley	300 bu	1,837 bu	6,888 bu
Canary seed	288 bu	1,764 bu	6,614 bu
Oats	422 bu	2,584 bu	9,689 bu
Rye, triticale	256 bu	1,567 bu	5,878 bu
Wheat	240 bu	1,470 bu	5,510 bu

## Directions for use and application tips

Apply using standard slurry, gravity flow or mist-type seed treatment application equipment. Consult [agsolutions.ca](https://www.agsolutions.ca) for calibration information.



### MIX/AGITATE

Mix/agitate the product well before applying.



### BE CAUTIOUS

Be cautious of weather and temperature of seed and seed treatment while treating. Keep seed treatment in a warm storage area and avoid treating seed that is colder than 0°C.



### FLOW RATE

Find the right flow rate to avoid plugging. Don't start treating with the seed treater running at 100% capacity.



### BLOCKAGE

If seed is dry, it can cause issues such as cracked hulls building up and plugging the metering roller/auger.



### DO NOT LEAVE UNATTENDED

Do not leave your seed treater alone when it's running, as many things can quickly affect seed treating quality.



### BE ATTENTIVE

Be attentive to factors that can cause changes to nozzle pressure, including the power source to the pump, an object blocking the filter or the hose not reaching deep enough into the product.



### FACTORS THAT AFFECT DRYING TIMES

Be cautious of drying times and factors that can lengthen them, such as weather (air temperature, wind speed, relative humidity), seed temperature, seed moisture levels, seed type and water being added during treating.

Dilution with water is not required unless recommended by the manufacturer of the seed treatment application equipment. If desired, increase the use rate proportionally to the dilution rate:

**Ex: 100 ml water + 300 ml Insure Cereal FX4 = 400 ml/100 kg seed**

BASF supports the addition of water to Insure Cereal FX4 to a maximum volume of 600 ml (300 ml additional water per 100 kg).

Do not use treated seed for food, feed or oil production.

In adherence with the "Seeds Act", Insure Cereal FX4 contains sufficient pigment to conspicuously colour and coat treated seed.

## Always read and follow label directions.

**AgSolutions**, INSURE and XEMIUM are registered trademarks of BASF; all used under license by BASF Canada Inc. INSURE CEREAL FX4 seed treatment should be used in a preventative disease control program. © 2022 BASF Canada Inc.

Raxil is a registered trademark of the Bayer Group, Monsanto Canada ULC licensee. © 2022 Bayer Group. All rights reserved.