

NUTRIENT

Flor'Protect®



Flor'Protect® detoxifies the medium by removing negative compounds for yeasts and bacteria such as inhibitors fatty acids. Recommended in case of sluggish fermentation and fermentation restart.



PRODUCT CHARACTERISTICS

- ◆ **Formulation:** 100% yeast hulls (*Saccharomyces cerevisiae*) or yeast cellular envelopes.
- ◆ **Enological benefits:** Throughout the alcoholic fermentation, especially under difficult conditions (high ABV, high temperatures, nitrogen deficiency), yeasts produce **inhibitory compounds** (medium chain fatty acids) which accumulate in the medium. Like **pesticide residues**, these molecules inhibit the yeasts' fermentary capacity and can lead to stuck fermentations. These compounds also inhibit malolactic bacteria and can cause complications for the **malolactic fermentation**.

Flor'Protect® **detoxifies** the medium using the adsorbent properties of **yeast hulls** to bind these inhibitors, thus improving yeast and malolactic bacteria activity.

Flor'Protect® can also be used for preventive treatment, to avoid sluggish fermentations (and the knock-on effects on the malolactic fermentation), or for curative purposes, it is recommended to detoxify the wine prior to the fermentation restart operations.

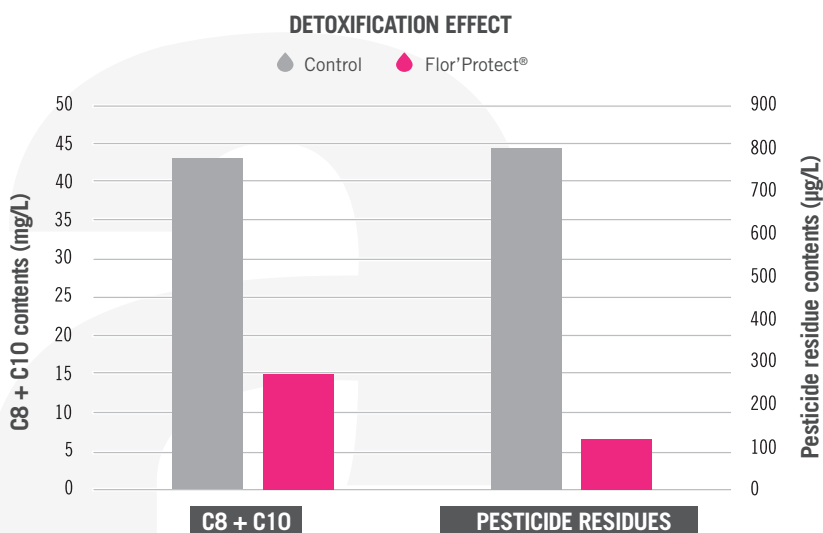


DIRECTIONS FOR USE

- ◆ Sprinkle Flor'Protect® progressively in 20 times its weight in water while continually stirring in order to avoid clumps. Add to the tank and homogenise with a pump-over.
- ◆ **Dosage:** 20 g/hL.
Preventive treatment: 20 to 30 g/hL.
Curative treatment: 30 to 40 g/hL (please refer to the fermentation restart protocol available online).
Maximum legal dosage (EU regulation): 40 g/hL.



TRIAL RESULTS



Flor'Protect® detoxifies the environment by fixing the inhibitory compounds of yeasts and lactic bacteria.



SPECIFICATIONS

PHYSICAL

- **Appearance & color:** Beige powder
- **Solubility:** < 10 %

MIROBIOLOGICAL

- **Revivable yeasts:** $\leq 10^2$ UFC/g
- **Mould:** < 10^3 UFC/g
- **Lactic bacteria:** < 10^3 UFC/g
- **Acetic bacteria:** < 10^3 UFC/g
- **Salmonella:** Absence/25g
- **Escherichia coli:** Absence/1g
- **Staphylococci:** Absence/1g
- **Coliforms:** < 10^2 UFC/g

CHIMICAL

- **Dry extract:** ≥ 94 % m/m
- **Carbohydrate:** > 40 % m/m
- **Glucans + Mannans:** > 60 % total carbohydrate

LIMITS

- **Lead:** < 2 mg/kg
- **Mercury:** < 1 mg/kg
- **Arsenic:** < 3 mg/kg
- **Cadmium:** < 1 mg/kg



PACKAGING & CONSERVATION

- Bags of 1 kg (in 10 kg box) and bags of 5 kg (in 15 kg box).
- Store in its original packaging hermetically sealed, in a cool, clean and dry place without odors. Respect the optimal date of use written on packaging. Use quickly after opening.