

> Key rules for an effective treatment



There is no temperature constraint when using Apivar:

It can be used in any season when the supers are not placed on the hives.



Leave strips in the hive between 6 to 10 weeks according to the size of the brood.

The larger the brood is, the longer the strips should be left in the limit of 10 weeks.
Do not re-use the strips.
Remove the strips after the treatment.

> To enhance Apivar's efficacy

Treat all of your colonies simultaneously to avoid re-infestation.

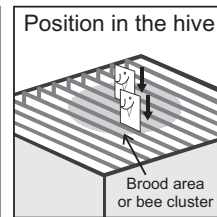
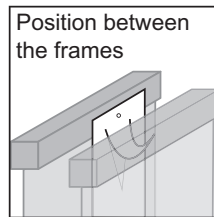
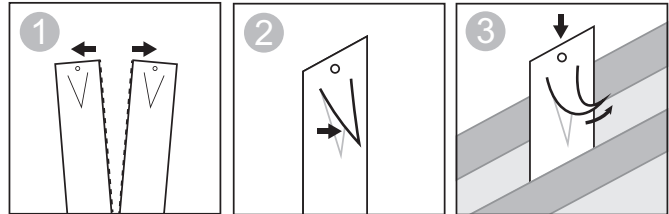


Respect the dosage of 2 strips per hive:

- Effectiveness is impaired with a lower dose.
- A higher dose may increase the risk of leaving residues.

Reposition and scratch the strips if necessary (see page 2).

> Using Apivar



Make sure that honey supers are not installed

1. Separate the double strip.
2. Push the strip's V-shaped die-cut outside.
3. Push each strip between the head of two frames inside the brood area or the bee cluster with a minimum distance of 2 frames between strips. The strips should be placed in such a way that the bees can have free access to both sides.

Alternatively, the strips can be hung by the hole in the V-shaped die-cut, using a small clove or toothpick fixed on the frame.



Brood center



Brood edge



Respect the duration of treatment:

To avoid encouraging the development of resistance, do not leave the strips in place throughout the winter season.



1 single application
Long period of protection

> How to observe the efficacy of Apivar

> Apivar's slow-release technology

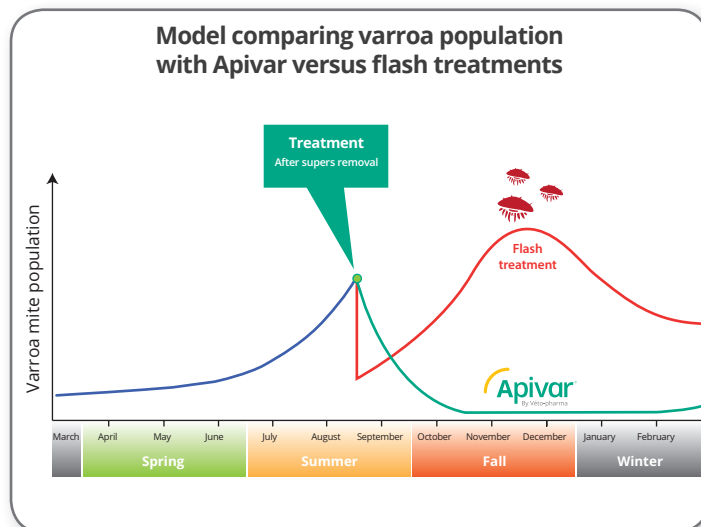
- No knock-down effect: it is normal not to always see a high fall in the first days of the treatment.
- Varroa fall rises through the duration of the treatment.
- At the end of the treatment, Apivar efficacy is up to 99%.*

*Efficacy tests: Anti-varroa treatments - FNOSAD [National Federation of Departmental Apiarian Health Organizations] - 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015 and 2016 - France

The plastic polymer of Apivar strips has been developed to continuously release amitraz over all the duration of a 6- to 10-week treatment, killing several successive generations of Varroa mites.

Therefore, Varroa falls in the beginning of Apivar treatment may be lower than in a flash treatment. This is normal, and does not mean the treatment is ineffective.

As illustrated by the chart on the right, flash treatments may seem effective in the beginning of the treatment but do not control the overall infestation of the colony. **A long-acting treatment like Apivar kills several successive generations of Varroa mites during the treatment period.**

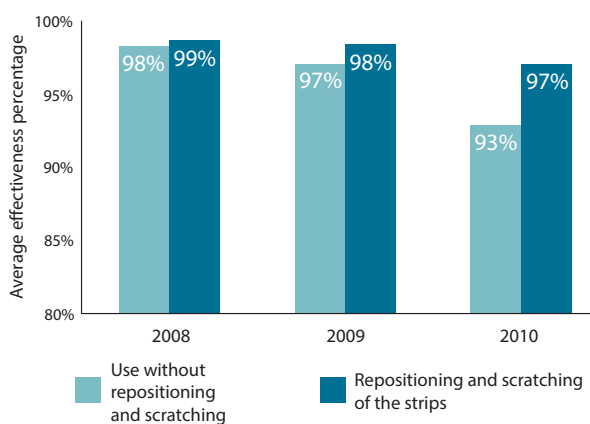


> Repositioning and scratching the strips to improve Apivar efficacy

As shown by the results of a study conducted by the French Association for the Development of Provincial Apiculture (ADAPI), repositioning of the strips and scratching them during treatment can improve Apivar efficacy. ADAPI compared the effects of an Apivar treatment with and without the repositioning of strips; the Apivar strips were scratched using the hive tool and repositioned in the cluster at mid-treatment.

As showed by the chart below, efficacy is improved after the repositioning of the strips.

Results of ADAPI study on the repositioning of strips



Reference - ADAPI (2012). Efficacité des médicaments AMM dans la lutte contre varroa, focus sur L'APIVAR®. La lettre du développement apicole en Provence N°23 Janvier 2012

*Association pour le Développement de l'Apiculture Provençale, or Association for the Development of Provincial Apiculture



A question about Apivar?

Ulrike Marsky Vétro-pharma's European Technical manager, can answer your questions. Contact her at technical@vetopharma.com

APIVAR® 500 mg Amitraz Bee-hive strips for honey bees. Composition: Each 15g strip contains 500 mg of amitraz (active substance).

Indication(s) for use: Treatment of varroosis due to *Varroa destructor* sensitive to amitraz in honey bees.

Contraindication(s): Do not use in case of known resistance to amitraz.

Adverse reactions: A transient change in behavior (e.g. fleeing reaction, aggressive behavior) may be observed when the strips are first placed in the hive. This is believed to be a defensive behavior rather than an adverse reaction to the product, per se.

Withdrawal period(s): Honey: zero days. Do not use during honey flow. Do not extract honey from the brood chamber. Do not harvest honey when the treatment is in place. Brood combs should be replaced with new foundation at last every three years. Do not recycle brood frames as honey frames. v0917

Apivar is a veterinary medicine subject to prescription.