

For the use only of a Registered Veterinary Practitioner or a Hospital or a Laboratory or a Farm.

Imidacloprid & Permethrin Solution

BanFlea® Spot-on

COMPOSITION:

Each ml contains:
Imidacloprid 100 mg
Permethrin 500 mg

INDICATIONS:

- For the treatment and prevention of flea (*Ctenocephalides canis*, *Ctenocephalides felis*) infestation.
- Fleas on dogs are killed within one day following treatment. One treatment prevents further flea infestation for four weeks. The product can be used as part of a treatment strategy for flea allergy dermatitis (FAD).
- For the treatment of biting lice (*Trichodectes canis*).
- The product has persistent acaricidal and repellent efficacy against tick infestations (*Rhipicephalus sanguineus* and *Ixodes ricinus* for four weeks, and *Dermacentor reticulatus* for three weeks).
- By repelling and killing the tick vector *Rhipicephalus sanguineus*, the product reduces the likelihood of transmission of the pathogen *Ehrlichia canis*, thereby reducing the risk of canine ehrlichiosis. The reduction in risk has been shown in studies to commence from 3 days following application of the product and to persist for 4 weeks.
- Ticks already on the dog may not be killed within two days after treatment and may remain attached and visible. Therefore the removal of ticks already on the dog at the time of treatment is recommended, in order to prevent them from attaching and having a blood meal.
- One treatment provides repellent (anti-feeding) activity against sand flies (*Phlebotomus papatasi* for two weeks and *Phlebotomus perniciosus* for three weeks), against mosquitoes (*Aedes aegypti* for two weeks and *Culex pipiens* for four weeks) and against stable flies (*Stomoxys calcitrans*) for four weeks.

DOSAGE AND ADMINISTRATION:

The recommended minimum dose is:

10 mg/kg body weight imidacloprid and 50 mg/kg body weight permethrin.

Administer in accordance with the following table:

Dogs (kg body weight)	Volume (ml)	Imidacloprid (mg/kg body weight)	Permethrin (mg/kg body weight)
>4 kg upto 10 kg	1.0 ml	10 - 25	50 - 125
>10 kg upto 25 kg	2.5 ml	10 - 25	50 - 125
>25 kg upto 40 kg	4.0 ml	10 - 16	50 - 80

For dogs over 40 Kgs use the appropriate combination of tubes.

METHOD OF APPLICATION:

BanFlea® is a spot on liquid preparation and very easy to administer. Before administering, ensure that your pet is dry. The dog should be standing for easy application. Care should be taken to avoid excessive wetting of hair during treatment of dogs. Do not allow treated dogs to lick each other or rub against other animals until the application site is dry.

For dogs of 10 kg body weight or less:

Part the hair at back of dog, at the base of the neck between the shoulder blades until the skin is visible. Place the tip of the tube directly on to the skin & squeeze firmly to apply the required quantity at one spot directly on to skin.

For dogs of more than 10 kg body weight:

Part the hair at back of dog, at the base of the neck between the shoulder blades until the skin is visible. Place the tip of the tube directly on to the skin & squeeze firmly the entire content of the tube evenly to four spots on the middle line of the back from the shoulder to the base of the tail.

PHARMACOLOGICAL PROPERTIES:

Pharmacotherapeutic group: antiparasitic agent,
ATCvet code: QP53AC54

BanFlea® is an ectoparasiticide for topical use containing imidacloprid and permethrin. This combination acts as an insecticide, acaricide and as a repellent.

PHARMACODYNAMIC PROPERTIES:

Imidacloprid is an ectoparasiticide belonging to the chloronicotinyl group of compounds. Chemically, it can be classified as a chloronicotinyl nitroquinoline. Imidacloprid is effective against adult fleas and larval flea stages. In addition to the adulticide flea efficacy of imidacloprid, a larvicidal flea efficacy in the surroundings of the treated pet has been demonstrated. Larval stages in the dog's immediate surroundings are killed following contact with a treated animal. It has a high affinity for the nicotinic acetylcholine receptors in the post-synaptic region of the central nervous system (CNS) in insects. The ensuing inhibition of cholinergic transmission in insects results in paralysis and death of the parasite.

Permethrin belongs to the type I class of pyrethroid acaricides and insecticides and also acts as repellent. Pyrethroids affect the voltage-gated sodium channels in vertebrates and non-vertebrates. Pyrethroids are so called "open channel blockers" affecting the sodium channel by slowing both the activation and the inactivation properties thus leading to hyperexcitability and death of the parasite. In the combination of both substances, it has been shown Imidacloprid functions as the activator of arthropod ganglion and therefore increases the efficacy of permethrin.

The product provides repellent (anti-feeding) activity against ticks, sand flies and mosquitoes, thus preventing the repelled parasites from taking a blood meal and thus reducing the risk of Canine Vector-Borne Disease (CVBD) transmission (e.g. borreliosis, rickettsiosis, ehrlichiosis, leishmaniosis). The product provides repellent (anti-feeding) activity against stable flies thereby assisting in the prevention of fly-bite dermatitis.

PHARMACOKINETICS:

The product is indicated for dermal administration. Following topical application in dogs, the solution rapidly distributes over the body surface of the animal. Both active substances remain detectable on the skin and hair of the treated animal for 4 weeks.

Acute dermal studies in the rat and target animal, overdose and serum kinetic studies have established that systemic absorption of both active substances after application on intact skin is low, transient and not relevant for the clinical efficacy.

WARNING & PRECAUTIONS:

- Wear gloves during application.
- Avoid contact with eyes and skin. If the product is in contact with eyes, rinse immediately with plenty of water.
- Keep treated animals away from flame until animal gets dry.
- Wash the hands thoroughly after use.
- Used applicators should be disposed of immediately and not left within the sight or reach of children.
- BanFlea® Spot-on** is to be applied to the skin surface only. Do not administer orally or parenterally.
- Do not apply when the animal's hair coat is wet. However, shampooing or soaking the animal 2 or more hours after treatment will not reduce the efficacy of the product.
- Do not smoke, drink or eat while handling the product.
- Do not use on puppies below 7 week of age.
- Do not use on cats.
- This product is extremely poisonous to cats and could be fatal due to the unique physiology of cats which is unable to metabolise certain compounds including permethrin. To prevent cats from being accidentally exposed to the product, keep treated dogs away from cats after treatment until the application site is dry. It is important to ensure that cats do not groom the site of application on a dog, which has been treated with this product. Seek veterinary advice immediately if this occurs.
- As the product is dangerous to aquatic organisms, treated dogs must not under any circumstances be allowed into any type of surface water for at least 48 hours after treatment.

CONTRAINDICATIONS:

Do not administer to animals other than those for which it is indicated.
Hypersensitivity to any of the Ingredients.

TOXICITY:

If animal consumes or licks accidentally, contact your veterinarian immediately for symptomatic treatment. Only for use by or under the observation of a registered Veterinarian.

STORAGE:

Store in a cool, dry place away from sunlight.

CONTAINER DISPOSAL:

Any unused product or waste material should be disposed of in accordance with local requirements. Imidacloprid and Permethrin may adversely affect fish or certain water-borne organisms on which they feed. Containers and residual contents should be disposed of along with collected domestic refuse to avoid contamination of any water courses.

PRESENTATION:

BanFlea® Spot-On For Dogs of 4 Kgs upto 10 Kgs

Unit dose Lamli tube of 1 ml.

BanFlea® Spot-On For Dogs over 10 Kgs upto 25 Kgs

Unit dose Lamli tube of 2.5 ml.

BanFlea® Spot-On For Dogs over 25 Kgs

Unit dose Lamli tube of 4 ml.

VETERINARY.
FOR ANIMAL TREATMENT ONLY.
NOT FOR HUMAN USE.
FOR EXTERNAL APPLICATION ONLY.

SHAKE WELL BEFORE USE.

KEEP OUT OF REACH OF CHILDREN & PETS, AWAY FROM FOOD.

Carefully read the accompanying instructions before use.

Veko®

Manufactured & Marketed by:

Veko Care Pvt. Ltd.

Plot No. E-48 & 49, MIDC,

Ranjangaon, Dist-Pune.

Maharashtra, India. Pin Code: 412220

Customer care: care@vekocare.com

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VPP12C08