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COMMERCIAL & SIDELINER KITS DK-162: READY TO BE FILLED and USE or PREFILLED with 65% Formic acid

UNUSED AND FILLED PADS IN KITS HAVE A SHELF LIFE OF 10 YEARS.

JUST KEEP THEM IN THEIR ORIGINAL BOX WITH THE BAG CLOSED, IN MODERATE TEMPERATURE OUT OF DIRECT SUN AND HIGH HEAT. MODERATE FREEZING UP TO -8° C 22° F IS NOT A PROBLEM.

TRANSPORT FILLED KITS IN THICK PLASTIC LATCH BOXES INTO BEE YARDS.

DK-162 For Side liners. Commercial operators. Suitable for foreign labor.



KITS are made of thick cardboard boxes lined with a poly bag. Inside are 5” pads cut with both ends open so no one can install them incorrectly. Each KIT will contain 162 - 5” pads, and will treat 54 hives with 3 pads and 81 with 2 pads. For instructions see: TREATMENT SELECTION – INSTRUCTION –RULES section for your climate and / or type of operation For example: (Almond pollinator)

<http://www.mitegone.com/howto.asp>

COMMERCIAL BEEKEEPERS: All you need to do is **TRAIN ONE RESPONSIBLE PERSON** to thin acid to 65% (in Canada & California 65% is available) and fill or weigh 40lbs. / 18.18kg of acid into the KIT. Tie the bag, close the box, place into a plastic latch box and gently roll it as shown on page 3 & 4 of this instruction sheet. This process insures that the acid fully fills all pads. Repeat this “rolling” before actual use in yard. After filling the KIT with acid, it will weigh 42lbs/18kg. Fill and transport each kit to bee yards in its own sturdy plastic latch box. (Available at WALMART see page 2) All your helper needs are tooth picks, gloves and a respirator. The Pads don’t drip. Buying a bundle of 12 kits will treat 972 colonies with 2 pads, and requires 2 barrels of acid. This single treatment will cost less than 3 dollars.

SIDE LINE BEEKEEPER: **Anyone with 16 or more hives** should use DK-162 containing 162 five inch pads. You are buying two years worth of treatment at \$1.48 a pad or yearly cost of \$ 7.40 per hive. Using the Hobby kit DK-20/22 will cost \$2.25 a pad or yearly cost of \$ 11.25 per hive. You can treat **32 two story hives** for one year by using 3 pads in August and 2 in April or **40 single hives;** use two pads in August and April.

KITS are available in single boxes anywhere in the world by air or ground via Canada post small packet mail. In Canada & USA: KITS are available in single boxes or in bundles of 4, 8, or 12, KITS by FEDEX. Acid filled kits are available from agents in plastic latch boxes.

FILLING COMMERCIAL KIT DK-162

BASIC RULES:

All work must be done in the open air, preferably in an open or drive through storage shed like you see on the picture, where the roof provides shade cover from the sun, protects from wind and rain, but also provides a clean air draft.



THE KIT COMES LIKE THIS: Please note that the piece of plastic or cardboard over the gap between the short sides of the box is protecting the bag from being cut by a knife when the kit is being opened. Leave it there

OPEN THE KIT AT THE SIDE DIRECTED BY THE LABEL. OPENING ON THE OTHER SIDE WILL CUT THE BAG AND MAKE THE KIT WORTHLESS.



FILLING FROM PREPARED KEGS.

Kegs are prepared with 40 lbs of 65% Formic acid. This is all the acid required to fill all of the pads in one kit.

All you need are rubber gloves, boots and pants, and a respirator. Put the empty kit with the open bag into a sturdy plastic latch box (Available at (WALMART *Sterilite* bar code 7314 900 8893). Ensure that the latch box is the full height of the kit and has a latching lid and strong handles to carry the filled kits to your hives.

Put the keg containing 40 lbs of 65% formic acid with the tap over the open box, remove the black breather-hole plug and gently open the tap to a light flow. Move the tap and keg on the support box from side to side to wet pads evenly throughout the whole box. Please note that there is 10" of the PVC 5/8" hose inserted and glued on the end of the tap. This allows easy filling of the kits without splashing.

IF YOU HAVE ACID AT 65% IN A BARREL, THEN USE A SCALE AND SUBMERGED HOSE TO FILL THE KITS SAME WAY AS YOU WOULD IF YOU WERE THINNING ACID.

The three most important things you need to have when working with formic acid are: respirator, rubber gloves, a pail of water or hose with running water, and pitcher to flush away any spills or to wash your hands and gloves.

CLOSING THE KIT WORK STATION



Before filling the pads, gather all of the materials you will need to close the kit. From left to right I have ready packing tape, a knife, two tubes of silicone sealer, side cutters and flat nose pliers. You will also need 10-12" cable or zip ties with a 40-50 lbs strength.



First, close bag as close to the pads as you can and tighten the zip tie as hard as you can using flat nose pliers. Then open the bag above the tie and place a blob of sealant at the junction. I use a tube of any silicone sealant if only doing one or few kits. I use insulation foam sealant in a pressure can when doing a series of kits.

Tie the second tie about 1 1/2" above the first and extend whole neck through the lid of kit's box. Lay the neck on top of label and close the latch box with its lid and close the handles as you see in following pictures.

**PADS IN KITS PREPARED
LIKE THIS HAVE
A SHELF LIFE OF
10 YEARS.**



**STAND THE KIT UPSIDE
DOWN FOR ONE MINUTE.
THAN ROLE IT ON EACH
SIDE FOR ONE MINUTE.**

**REPEAT THIS MANUVER
BEFORE OPENING AND
BEFORE INSTALLING
PADS INTO YOUR HIVES.**



WORKSTATION SET UP WHEN FILLING MULTIPLE KITS

