

MIDMOS

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Control of Bed Bugs in Materials

User Instructions



Intended Purpose

The BB ALERT® O₂PM system is a pesticide-free method of eradicating Bed Bugs in mattresses, bedding, and portable items from an infested room.

It works by absorbing and removing Oxygen from the air within a sealed, gas-tight outer treatment bag (Flexibag) for a period sufficient to kill all stages of the Bed Bug life cycle from eggs to adult insects.

Usage Conditions

- The system should only be used by a responsible adult for the intended purpose and subject to the User Instructions given in this brochure.
- Sealed Flexibags should be kept in a secure, ventilated treatment area at a preferred temperature of 24°C (76°F) for the duration of treatment (10 days).
- For every one degree C below 24°C, add one extra day to the treatment period.
- Treatment should not be carried out at temperatures below 15°C (60°F).

Equipment required

- 1 O₂PM outer Flexibag.
- 2 O₂PM inner Transit Bag
- 3 O₂PM Oxygen Depletion Packs : 960g. (x2 per Flexibag treatment)
- 4 A means of heat-sealing the FlexiBag.
 - a) O₂PM Hand-held Heat sealer :
BB-02-BS : Hand sealer HZ
Hot seal / 30 cm. (12 in.) Jaws
110 / 240 volt options available

N.B. Alternative units with identical specification may be obtained from local suppliers but it must be noted that Induction system cold sealers are not suitable for this purpose and will not provide an effective seal.

- b) Alternatively some users have found that carefully using a domestic iron, set at its highest heat setting can also make an effective seal.

- 5 A Vacuum cleaner with a flexible hose.

Starting Treatment :

1. Loading the Flexibag

- Working in the infested room, place all mattresses, bedding, curtains and suspect portable items into a Transit bag taking care not to tear the bag.
- Close the Transit bag zipper to avoid spreading Bed Bugs during transit to the Treatment area.
- Take the sealed Transit bag to the secure Treatment area being careful to avoid tearing the bag.
- In the Treatment area use an underlay protection on rough floor areas where the Flexibag will be used –

N.B. If the Flexibag is damaged or punctured the oxygen depletion process will not work and the treatment will fail.

- Inspect the Flexibag to be used for signs of accidental damage or puncture.
- Open the Transit bag zipper and carefully place the Transit bag into the Flexibag checking that there are no sharp projections in the contents that could damage the Flexibag when air is removed.
- Remove two (2) : 960g. O₂PM Oxygen Depletion Packs from their outer bag and place inside the Flexibag on top of the Transit bag at least 30cm. (12 in.) apart for best performance.



- Immediately start the Flexibag sealing process.

Starting Treatment :

2. Sealing the Flexibag

a) Connect the Hand-held heat sealer to power supply and allow to heat to 200°C – following the manufacturer's instructions.

- Hold the top and bottom edges of the Flexibag between the jaws of the Heat sealer and clamp for five (5) seconds per seal.

Using a seal line near the open edge will allow the Flexibag to be re-used if undamaged in handling and treatment.

- Starting from one side of the Flexibag, repeat this sealing process moving across the Flexibag until one open section remains. Ensure there are no gaps at the joins (it will not damage the Flexibag if seals overlap).



b) If using a domestic iron, it is recommended that a sheet of plywood or fibre board is placed under the area to be sealed to ensure a smooth join.



- Before the final seal is made, carefully insert the Vacuum Cleaner hose into the Flexibag, switch on and remove some of the air. Remove the hose when the Flexibag begins to tighten around the contents. Do not over tighten as 20% of the remaining air volume will be removed



during treatment as the oxygen is absorbed. It is important to allow for this. **If shrinkage is too much there is a chance of puncturing the film.**

- Complete the final heat sealing of the remaining open section.



- Carefully position the sealed Flexibag in a secure, undisturbed location for the duration of the treatment checking periodically for accidental movement or damage and that the room air temperature is maintained throughout.



Treatment Duration

- With Treatment area temperatures at or above 24°C.(76°F.) the treatment will be completed in 10 days.
- If temperatures fall below 24°C.(76°F.) one treatment day should be added for every 1°C. drop.
- O₂PM treatments should not be carried out where Treatment area temperatures fall below 15°C. (60°F.).

Continued overleaf

Finishing Treatment

- Using scissors, carefully cut open the Flexibag close behind the seal to allow for future re-use.



- Keeping the treatment area secured, leave the Flexibag open for 15 minutes to fully restore oxygen levels.
 - Always ensure there is adequate ventilation during the opening of Flexibags.
 - Do not open more than three(3) Flexibags in the same treatment area at the same time.
- Remove the internal Transit bag and treated materials.
- Carefully fold the used Flexibag for re-use (maximum three (3) times) and store securely where safe from accidental damage.
- Remove treated materials from the inner Transit bag and thoroughly inspect **both** for dead Bed Bug eggs, nymphs and adults. They can be removed by brushing or vacuuming.
- Treated and cleaned materials can be re-used immediately.
- Check the Transit bag for accidental tearing and if undamaged, store securely for re-use.
- The used O₂PM Oxygen Depletion Packs contain no harmful chemicals and may be safely disposed of under local waste regulations.
 - Used Packs may become warm on exposure to air after treatment. This is normal. Wait until cool before disposal.

Advice Notes

- The BB ALERT® O₂PM system is designed only for the control of Bed Bugs in materials and should not be used for any other purpose.

The O₂PM Oxygen Depletion Pack.

- Take care not to puncture the O₂PM Oxygen Depletion Pack or otherwise release contents. In the event of accidental spillage, collect contents with a dry brush or vacuum cleaner. Do not use water as this may cause staining.
- If contents of this Pack come into contact with skin or eyes, flush repeatedly with cold water for 15 minutes. If symptoms persist, consult a physician.
- This is not a food product. It is not for human consumption and if accidentally eaten, consult a physician.
- The Pack is designed to become warm in use and should be handled with care and not be placed in direct contact with unsuitable materials.
- The Pack may temporarily become warm again when removed at the end of treatment. Allow to cool before disposal.
- The Pack contains no harmful chemical residues and may be safely disposed of under local waste regulations.

Composition

Proprietary iron based oxygen absorbing blend of:

- Iron Powder (Fe) – Salt (CaCO₃)
- Active Carbon (C) – Diatomite Granules

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