

Activated EM•1:

1 part EM•1
1 part Molasses
20 parts warm Water(110-115 degrees)

Directions:

1. Mix and anaerobically ferment for 3-7 days in a sealed, expandable container at room temperature.
 2. When pH is below 4.0, Activated EM•1 is ready to use. Usually the pH is below 3.8 by the second or third day gas is produced.
 3. Activated EM•1 should be used within one month after fermentation.
- *Note: Pressure buildup will have to be released by unscrewing cap of container, perhaps once or twice per day.

Applications:

Activated EM•1 is applied at various rates according to desired results and the medium to which it is applied. Generally, on land Activated EM•1 is applied at a rate of 40 or more gallons per acre per year. In water/wastewater, Activated EM is applied as a shock at 1:1,000 and at 1: 10,000 for maintenance.

More information is available in the International Kyusei Nature Farming Conference books, available through EM Technology Network for \$20.00 each (Vols. 1-6). Also available is the APNAN manual for \$5.00.

EM Bokashi:

1/2 Cup EM•1
1/2 Cup Molasses
Water
100lbs. Wheat Bran(or some other high carbon material/waste material)

Directions:

1. Mix molasses with water to dissolve molasses.
2. Add EM•1 and incorporate into wheat bran.
3. Add water until moisture content is 35-40%. (At this point it will form a ball when squeezed, but no excess liquid will drain out.)
4. Put into airtight container for two weeks or double plastic bags. Leave at room temperature. The finished EM Bokashi has a sweet fermented smell and may have a white mold.
5. Dry for long term storage or apply immediately.

Applications:

EM Bokashi can be used to add organic material to soil and also adds microorganisms when it gets wet. EM Bokashi is mainly promoted for use in the fermenter buckets as part of the EM Bokashi Network to stabilize food waste and eliminate malodors before they are incorporated into soil. Please contact Junko Gabriel for more information about the EM Bokashi Network and its activities at 520-629-9301.

EM5:

1 part EM•1

1 part molasses (or high sugar material)

1 part distilled liquor (Vodka, Tequila, Whiskey)

1 part Non-filtered apple cider vinegar

6 parts water (105-120 degrees F)

(you can also add high antioxidant plant materials: garlic, ginger, orange peel, etc.)

Mix all materials and anaerobically ferment in an expandable container until the pH is below 4.0. Gas build-up will periodically need to be released. Store out of direct sunlight and use within 30 days.

Applications:

1. Dilute with water and apply at a rate of 1 part EM5 to 500-1,000 parts water directly to leaves of plants.
2. Applications are most effective when applied in early morning.
3. Maintenance applications are done on alternate weeks or once per month.
4. If problems already exist, apply daily or every other day until problem disappears.
5. For best results, alternate with regular Activated EM•1 applications.
6. If chemicals/pesticides/fungal inhibitors are used, wait one week after application before applying EM•1 products.

For more specific directions and applications, consult your Certified EM Provider (CEMP). Contact EMRO USA for a list of CEMPs.