

BERKEY EARTH™ NATURAL DE (DIATOMACEOUS EARTH) FILTER ELEMENT INSTALLATION AND CLEANING INSTRUCTIONS

INSTALLATION INSTRUCTIONS:

BERKEY EARTH™ DE Filter Elements require no priming (Do not attempt to Prime as this could damage the elements).

Step 1: **INSTALL BERKEY EARTH™** DE FILTER ELEMENTS:

Place the rubber washer over the threaded element mount and install into holes in the base of the upper chamber. Screw on the element nut from bottom surface of upper chamber ensuring that a seal is made. Repeat for additional elements. **DO NOT OVER TIGHTEN AS THIS MAY STRIP THE THREADS ON THE WINGNUT.**

Step 2: **CONDITION BERKEY EARTH™** DE FILTER ELEMENTS:

--Ensure that the spigot is in the "OFF" position. Wipe the dust from the outer surfaces of the DE elements with a damp cloth.

--Fill upper chamber fully with cold or room temperature water and cover with lid. Allow gravity to filter all water into lower chamber.

--Open the spigot and allow all water to run to waste. Refill upper chamber again with water and open spigot for two minutes and allow water to run to waste. Your **BERKEY®** water filter system is now ready to use.

NOTES: If the **BERKEY EARTH™** DE Filter Elements are left to stand for more than 3 days, then it is recommended that water be run to waste for 1 minute before using. When installing **BERKEY EARTH™** DE Filter Elements for the first time or replacing a used element with a new one, it is important to condition the new elements using the above procedure. It may take up to 12 hours after beginning use of the elements for them to achieve their full flow rate capability.

CLEANING INSTRUCTIONS:

1. Carefully remove the **BERKEY EARTH™** DE Filter Elements from the upper chamber.
2. Use a soft toothbrush or soft scouring pad (3M Scotch-Brite® or similar), scrub the element under running water or in a bowl of water. Always brush away from threaded mount, taking care not to contaminate the mount. Never use soap or detergents.
3. Replace the **BERKEY EARTH™** DE Filter Elements in the upper chamber. Be sure that the sealing washer is properly seated by turning the nut until tight. Do not over tighten. **NOTE:** Rubber gloves are suggested.

Under normal circumstances the **BERKEY EARTH™** DE Filter Element will be exhausted after three years. The elements need be cleaned only when the flow rate slows down to the point where it becomes inconvenient. When using municipal water this typically occurs after 6-18 months of use. When using extremely turbid water this can occur in as little as two weeks. As the elements filter out particulate from the water, the flow will gradually reduce. The flow rate of the **BERKEY EARTH™** DE Filter Elements can be easily renewed by simply brushing the outer surface with a soft toothbrush or soft Scotch-Brite® pad under running water. As the top layer of the **BERKEY EARTH™** DE Filter Element and the contaminants are brushed off and flushed away, a new layer becomes available. This process can be repeated over and over before the **BERKEY EARTH™** DE Filter Element material has been exhausted.

NEW MILLENNIUM CONCEPTS, LTD.

BE DE Element Assembly-Clean Instructions - 02-15

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Berkey Earth™ DE Element Test Results

Viruses and Bacteria Contaminates:

Bacillus atrophaeus, E-coli, Fecal Coliform, Salmonella enterica, Total Coliform.

Volatile Organic Compounds (including):

Benzene, Bromoform, Chloroform, Ethyl benzene, Methyl Chloride, MTBE, m-Xylene, Naphthalene, o-Xylene, Styrene, Toluene, Vinyl chloride and many more.

Heavy Metals (high & low pH):

Aluminum, Antimony, Arsenic, Beryllium, Bismuth, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Zinc.

Pesticide Contaminates (including):

4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Alachlor, Atrazine, Bromacil, Carbofuran, Chlordane, Dieldrin, Endrin, Ethoprop, Fluoridone, Heptachlor, Lindane, Molinate, PCB's, Simazine & many more.

Semi-Volatile Contaminates (including):

Anthracene, Carboxin, Chrysene, DCPA, Diazinon, EPTC, Fluorene, Hexachlorobenzene, Hexazinone, Isophorone, Merphos, Norflurazon, Pebulate, Propazine & many more.

Disinfectant & Inorganic Non-Metallic Contaminates:

Chloramine, Free Chlorine, Chloride & Fluoride.

Herbicide Contaminates (including):

2,4-D, 2,4-DB, 2,4,5-T, Dalapon, DCPA, Dicamba, Dinosep, Picoram, Silvex & many more

Pharmaceutical Drug Contaminates:

Acetaminofen, Bisphenol-A (BPA), Caffeine, Carbamazepine, Ciprofloxacin HCL, Diclofenac Sodium, Erythromycin USP, Ibuprofen, Naproxen Sodium, Primidone, Progesterone, Sulfamethoxazole, Triclosan, Trimethoprim & more.

Petroleum Contaminates:

Crude Oil, Diesel, Gasoline, Kerosene, Mineral Spirits, Refined Oil

Other:

Methylcyclohexane-methane

For a complete list of potential contaminants reduced or removed, please contact your local **Berkey®** Products Dealer.