



100% ALL NATURAL - WASTE MANAGEMENT AND ODOR CONTROL
 Formulated for Home, Ranch & Commercial use

Commercial Manufacturing, Restaurants & Hospitals

1. Initial Treatment - Treat each drain the first day. If a specific drain remains sluggish, extend treatments a few more days before going to maintenance schedule. *Floor Drains/Mop Sinks*-Apply one (1) Level scoop. [15g] mixed with one (1) pt. [.5L] water for each inch [2.54cm] of pipe diameter. (4"[10cm] = 4 scoop. [60g], 2"[5cm] = 2 scoop [30g] etc.). All other drains 1 Level scoop [15g] each. Follow dosage with water or mix with water at the rate of 1 pt. [.5L] of water per scoop [15g] used. *Luke warm water is most desirable* - never hot.

2. Maintenance

Commercial Maintenance Chart		Weekly Treatment	
(Restaurants or where Grease Traps are used) Every 4-7 Days depending on load Mix proper amount BIO-PURE with 8 oz. [250ml] of warm water before applying		Mix proper amount of BIO-PURE with 8 oz. 250m of warm water before applying	
Garbage Disposal	1 Scoop [15g]	Urinals	1 Scoop [15g] per week
Dishwasher	1 Scoop [15g]	Toilet	1 Scoop [15g] per week
Kitchen Sink	½ Scoop [7.5g]	Bar Drain	1 Scoop [15g] per week
Cooker Drain	1 Scoop [15g]	Cold Drink	1 Scoop [15g] per week
Mop Sink	1 Scoop [15g]	Waitress	1 Scoop [15g] per week
Pot & Pan Sink	1 Scoop [15g]	Tub or	1 Scoop [15g] per week
High Use Floor	1 Scoop [15g]	Floor Drains	1 Scoop [15g] per week

Grease Traps

1. Initial Treatment - All grease traps must have initial BIO-PURE DRS treatment directly into trap. It is most desirable to clean the trap and apply BIO-PURE DRS when no new wastewater will be going into the trap to several hours.

- A. First determine size of trap and amount of BIO-PURE DRS required. Mix with warm water and let stand while cleaning trap.
- B. For best results, remove grease and liquid.

Trap Size	BIO-PURE	Water	Trap Size	BIO-PURE	Water
Up to 100 Gal	2 oz.	1 qt.	2500 – 5000	2 x 6 oz.	2 Gal.
100 – 500 Gal.	4 oz.	1 qt.	5000 – 10,000	2 x 14 oz.	4 Gal.
500 – 2500 Gal	6 oz.	1 Gal.			

For each additional 5000 Gal. [1 895L or 1.9ml] of trap capacity add an additional 14 oz. [114g] of BIO-PURE DRS with 2 Gal. [1.9L] water. Initial application is the only time adding BIO-PURE directly to the trap or receptor is necessary. After initial application, weekly maintenance applications maintain viable strains of microbes active within the trap. Maintenance applications can be accomplished by adding directly to all openings/drain lines discharging into grease trap.

Important

- A. Grease traps near dishwashers using preheated rinse must be allowed time to cool or be flushed with cold water before applying BIO-PURE DRS. Temperatures over 140 F [60* C] destroy some microorganisms.
- B. If grease traps are connected to septic systems, it is doubly important that BIO-PURE DRS is used on a regular maintenance schedule to prevent grease from stopping percolation in the absorption field.
- C. Visible evidence of results may take a few days depending on build-up.

2. Maintenance – Re-applying BIO-PURE DRS directly into trap will not be necessary if adequate amounts are regularly applied to drains going into trap (See Commercial Maintenance Schedule) and make removal of contents necessary, then re-apply initial amount in the same manner to re-start.

Exceptions: Do not drain juice from pickles into drains that go into grease traps. Pickle juice will result in an acid concentration that kills bacteria.

Commercial Non-Restaurant Homes, Hotels/Motels, Apartments and Office Complexes

1. Initial Treatment - Apply to each drain the first day. If a specific drain remains sluggish, extend treatment a few more days before going to maintenance schedule. *Floor Drains* - Apply 1/4 scoop.[3.75g] mixed with 8 oz of lukewarm water for each inch of pipe diameter. Example: 4" diameter pipe = 1 scoop. [15g] = 2 pt. or 32 oz. of water. *Other Drains* 1 scoop ½ oz. [15g] with 16 oz. luke warm water per (4) drains.

2. Home & Commercial Maintenance (Without Grease Traps) Mix 1/2 scoop once a month [7.5g] of BIO-PURE DRS in 16 oz. warm water for each (4) bath/shower drain, kitchen sink drain, lavatory, toilet (directly into bowl), laundry, and floor drain. This will provide 96 drain treatments per 6 oz. jar of BIO-PURE.

Special Circumstances

High Rise Buildings with accessible roof vents: Divide the number of floors by 4. This number times the vent pipe diameter equals the number of ½ oz. scoops for initial treatment Use 1qt. 32 oz warm water per scoop. [15g] unless problem is in main sewer away from building; then double or triple water.

If drain is not flowing. Cable drain first. If it cannot be cabled add 1 scoop. [15g] mixed with 16 oz. of water per day until DRS digests stoppage. Depending upon blockage, this can take several days or longer.

Building on septic system, follow directions in "Septic Tanks/Cesspools" first Then start with building treatment.

For buildings with septic system featuring garbage disposal, dishwasher, or clothes washer, add 1 scoop. [15g] of DRS mixed with 8 oz. warm water each month to each drain.

Hard water causes slime in toilet tanks. Add ½ scoop. [7.5g] to bowl as needed to eliminate slime. Do not flush for several hours.

Garbage Disposal Odors: Mix 1/2 scoop. [7.5g] BIO-PURE DRS with 8 oz. water. Turn on disposal; apply mixture, and quickly turnoff disposal. Do not use for several hours. Repeat as needed.

Hair Clogged Drains: Hair digests slowly and can build up in great quantities in bathtub and lavatory drains. Severe buildup may require daily treatment for up to two weeks unless the bulk is first removed manually. Once removed manually or with extended treatment, regular maintenance applications will keep these materials from forming. If extended treatment or use of mechanical aid does not restore full flow, you almost certainly have an inorganic solid obstruction (toy, glass, toothbrush, etc.) in the trap line, which will have to be removed manually.

- Multiple Drain Applications. Where multiple drains are to be treated or multiple application areas for BIO-PURE, the use of a 1-2 Gal. pump type sprayer to mix a quantity of BIO-PURE DRS solution makes the application faster and easier.
- Calibrate Sprayer: Fill sprayer with water. Spray into measuring cup featuring eight (4) oz. graduations. Time how long it takes in seconds to fill measuring cup to the eight (4) oz. level. This will be the length of time to spray the BIO-PURE mix into each drain, shower, sink, etc. To each gal. of warm water in the sprayer, add two 2 oz. BIO-PURE and stir or shake well. Go to each drain location and spray BIO-PURE mixture into the drain for the same amount of time it took to fill the eight (4) oz. measuring cup. This procedure will give 32 (4) oz. BIO-PURE drain treatments. During application, shake sprayer regularly to ensure good product water mix. Do not prepare more BIO-PURE DRS mixture than you will use in two (2) hours. When complete, clean sprayer with fresh, clean water.

Septic Tanks & Cesspools

1. Initial Treatment - Apply one initial treatment of BIO-PURE DRS which is 6 oz. [180 g] for each 1,500 Gal. [5685L or 5.7m³]. Initial treatment should be mixed with lukewarm water. Ratio: 6 oz.[180g] with ½ Gal. [1.9L] water. Mix up the mixture and pour directly into tank or cesspool, or into drain or drains going into tank.

2. Maintenance - After initial treatment of tank, re-application will not be necessary provided building drains are given initial treatment and are followed by periodic maintenance treatments (See Home Maintenance Chart).

If Tank Has Stopped Working

- If backed up into sanitary lines, determine if there is build up restricting flow at the front baffle in the tank, or if the tank is full of solids, have it pumped before treating.
 - If the solids on the top of waste in the septic tank are gray in color or has a hard crust approximately 12" [30.5cm] thick, septic tank or cesspool should be pumped before treating with BIO-PURE DRS. If sludge or ash buildup at the bottom of the tank or cesspool is 12" [30.5cm] or more in thickness, it should be pumped before starting to use BIO-PURE.
- Drain Field Restoration (Water standing in the leach ate field)*
- If there are distribution boxes, the absorption field can be restored faster if you pre-mix 3 lbs. [1.36kg] of BIO-PURE DRS in 5 Gal. [19L] water and pour into each distribution box.

Additional Home/Ranch, Motor Homes, RV's & Boat Uses

Pet Habitats, Urine, Ammonia & other organic odor problems – add ½ oz., 1 scoop to (Garden Spray Tank) with ½ gal. of warm water, mix & apply liberally to odor source. Maintenance – as needed. Motor Homes, Boats -Mix three (3) oz., 6 scoops [90 g] into one (1) pt. [.5L] lukewarm water, pour into toilet and flush, or pour directly into holding tank. Fill balance of tank with water and let stand for two (2) days. Drain tank and flush out with water (until water runs clear). This will clean the tank. When toilet is used again, add two (2) scoops [30g] of BIO-PURE DRS in one (1) cup [250mq warm water to toilet and flush. This will reactivate digestion of the tank. This should be sufficient until toilet facilities are emptied. Note: If odor reoccurs before dumping, add an additional two (2) scoops. [30g] BIO-PURE DRS mixed in one (1) cup [250ml] warm water to the tank.

Pleasure Boat Bilges – Note: BIO-PURE DRS will work in both fresh and salt water. The capacity and volumes to be treated are related and will determine the amount of BIO-PURE DRS to be used. Consider the levels of oil, grease, and/or fuel to be treated and use this to determine a starting point for your program, For General Application: Use 1/2 oz. 1 scoop [15g] BIO-PURE DRS for each Gal. [3.79L] of bilge water. If treatment is working, the water will become milky-colored. If the milky color does not appear, add more BIO-PURE DRS. For commercial boating, contact a BIO-PURE Products Technical Representative for treatment program.

- It is best to apply BIO-PURE when no water will be going into the drain system for 4-6 hours (bedtime, kitchen shutdown, etc.).
- Never use other chemical cleaners or additives in your waste systems when using BIO-PURE.
- Drainpipe flow will improve within a 1-3 day period. During this time, a stoppage may occur due to chunks of waste loosened. Use a plunger or cable to restore flow. Do not become discouraged. BIO-PURE is "really cleaning" your system and with periodic treatments will prevent re-accumulation.
- Mix BIO-PURE with warm water. Avoid using hot water, as it may kill the bacteria. On multi-story buildings, begin initial treatment on the lowest level (basement drains, if any) and progress to the top, completing the treatment on each floor before going to the next floor. Never get measuring scoop wet and place back into container. Bio-Pure must be kept dry. Reseal lid to ensure freshness.