

# 1201 SERIES

MUNICIPAL BLEND

POWDER

## OVERVIEW

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Municipal wastewater plants face the constant challenge of combating solids, sludge, malodors, organic buildup, and grease. These can be defined as undesirable levels of BOD, H<sub>2</sub>S, TSS, FOG, and poor DO stability. Municipalities face these challenges due to older, outdated facilities which are over the designed capacity, along with a wide range of residential, commercial and industrial waste streams. The quick fix attempt of using chemicals or manual labor as control measures can be costly and inefficient.

The simple solution is our RBT 1201 Series product, which is a blend of natural occurring organisms that attack the source – waste – as it enters the municipality system, preventing solids/sludge accumulation at pump stations, in sewer lines, and improving the plant efficiency. Plants decrease malodorous environment with improved BOD and efficient removal of solids from the use of RBT 1201.

## APPLICATIONS:

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- | WASTEWATER PLANTS
- | HOLDING TANKS
- | REACTORS & CONTRACTORS
- | WASTE PUMPS
- | OXIDATION DITCHES
- | LAGOONS ACTIVATED SLUDGE
- | LIFT STATIONS

## ADVANTAGES:

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- | REDUCES FOG, BOD, COD AND TSS OF DISCHARGE REDUCING WASTE COST AND SURCHARGES
- | BROAD SPECTRUM ORGANIC DEGRADATION
- | MULTIPLE PACKAGING OPTIONS
- | EXTENSIVE STABILITY AND SHELF LIFE
- | UTILIZES THE POWERFUL WASTE DIGESTING ABILITIES OF SPECIFICALLY SELECTED, BENEFICIAL BACTERIAL CULTURES, AND THE NATURAL ENZYMES PRODUCED BY THESE CULTURES
- | PREVENTS THE ACCUMULATION OF SLUDGE, SCUM GREASE, AND OTHER ORGANIC SOLIDS
- | DESTROYS ODORS NATURALLY
- | CONTAINS NO CHEMICALS
- | INCREASES SYSTEM EFFICIENCY
- | CHANGES BIOMASS DYNAMICS
- | BREAKS DOWN FAT & GREASE BUILDUP
- | DEGRADES A WIDE VARIETY OF COMPLEX ORGANICS

## TARGETED COMPOUNDS

- | PHENOLS
- | CELLULOSE
- | PROTEINS
- | SURFACTANTS
- | SOAPS & STARCHES
- | AMMONIA, CHEMICALS & BTEX
- | ODOR SOURCES
- | SLUDGE VOLUME



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## STRAINS

I MULTI-STRAIN SPORE & VEGETATIVE MICROORGANISM BLEND

## APPLICATION INSTRUCTIONS:

*Dosage rates will vary with flow rates, retention times and system variations. The rates above are for a typical, well-maintained system.*

Flow Rate	Initial Dosage	Maintenance**
Up to 1,000 GPD	1/2 LBS. per day for 3 days	1/2 LB. 2x per week
Up to 5,000 GPD	1/2 LBS. per day for 3 days	1 LB. 2x per week
Up to 20,000 GPD	5 LBS*	1 1/2 LBS 2x per week
Up to 50,000 GPD	8 LBS*	2 LBS 2x per week
Up to 250,000 GPD	15 LBS*	1/4 LB per day
Up to 500,000 GPD	25 LBS*	1/2 LB per day
Up to 1 MGD	50 LBS*	1 LB per day
Up to 2 MGD	50 LBS PER MGD*	1 LB per MGD per day
Up to 12 MGD	50 LBS PER MGD*	3/4 LB per MGD per day
Up to 100 MGD	30 LBS PER MGD*	1/2 LB per MGD per day

\* Spread initial dose out over the course of 10 days

\*\* Add as regularly as possible. If it is required to miss one day, add that day's product with the next days dosage.

## ACTIVATED SLUDGE SYSTEMS:

Activated sludge systems include various process flow sheets for example: Extended Aeration, Contact Stabilization, Step Aeration, Oxygen Activated Sludge. The application rate for all products is based on the average daily flow rate to the aeration basin, excluding the return sludge stream.

## LAGOON SYSTEMS:

For anaerobic and facultative lagoon systems, the application rate is based on the lagoon surface area:

Day 1 Through Day 5: - 15-20 LBS per Acre per Day  
Day 6+: - 1 -2 LBS per Acre per Week

## TYPICAL PROPERTIES

I APPEARANCE ..... TAN POWDER  
I FRAGRANCE ..... MILD  
I FORM ..... POWDER  
I SHELF LIFE ..... 24 MONTHS  
I EFFECTIVE pH range..... NA  
I EFFECTIVE TEMPERATURE RANGE..... 34-120 DEGREES F

## BACTERIA CONCENTRATION

I 5.1 BILLION CFU/GRAM

## PACKAGING

I 30, 50, 100, 400 AND 2,000 LB. CONTANERS  
I ALSO AVAILABLE IN 2 OZ., 4 OZ., 8 OZ., AND 16 OZ. WATER-SOLUBLE BIO-PACKETS

