

SERVICES

Fill - One Paint Disposal System

Domestic Machine:

For use with homes and offices



Industrial Machine:

For use on buildings
and large scale projects



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Paint Disposal System

Fill One is committed to environmental protection and out of this concern the company has developed the “**Envirolite Paint Disposal System**” to ensure that waste paint chemicals and residues from application systems are managed and disposed of in a safe, responsible and appropriate manner. This is essentially a mobile wastewater treatment system which effectively treats and contains wastewater from the washing of used brushes, rollers, containers and any other application system components.

The system has the following advantages:

- It is the main component of the site environmental management plan (EMP) for the painting operation
- It prevents contamination of the:
 - Storm water system by preventing spillage onto the ground surface since stormwater enters the environment untreated
 - Groundwater since spillage onto un-surfaced ground causes seepage of pollutants into the water-table where it is dispersed throughout, negatively impacting the groundwater quality
 - Wastewater discharged to the wastewater (sewage) treatment works. Since the unit separates water from sludge it reduced the solids waste discharged into the sewers preventing blockages in the sewers and reduces the sludge burden at the wastewater treatment works. Since much of the COD (Chemical Oxygen Demand) load is contained in the sludge it would also reduce this burden at the treatment works. The sludge is separated and de-watered in the unit and can safely be disposed at a general landfill since there are no residual hazardous materials present.

The unit is a definite advantage to the treatment of this type of wastewater by lending structure to what is still largely a haphazard operation which negatively impacts the environment. It ensures a safe and responsible disposal solution for waste and wastewater from these operations and complies with the provisions of the National Environmental Management Act (National Waste Management Act) and the National Water Act

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Basic Operational Procedure

The system consists of a wash basin with spray guns which needs to be attached to a water point. The paint/water mix from the basin flows into a catchment tank. Once the tank is full a proprietary combination of chemicals are blended with the mixture in the catchment tank. This leads to the flocculation and finally settlement of the solids portion of the paint. Thus you are left with a liquid layer which is tapped off via a filtering process free of hazardous ingredients (as listed in Schedule 2 of the Municipal Waste Water By-law) and either reused (in the wash system) or released into the sewer system compliant with all Municipal regulations. The sludge portion is pumped into filter bags and allowed to dry. This dried cake can then be disposed of as non-hazardous general waste. The system requires no power source as both the pump and mixing are manual operations.

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Paint Disposal System Operations

BASIC WASHING PROCEDURE

- 1) Place plug into the machine's basin.
- 2) Wash brushes, rollers etc with water in the basin.
- 3) Wash and rinse out basin to ensure it stays clean and unclogged.

MAIN SYSTEM CLEANSE

Once the tank has reached the max level, which is just below the inlet from the top basin, the following cleansing procedure is to be taken:

- 1) Add (1Lt Dom/ 2Lt Ind) of **Floc 1** into the main tank, and stir vigorously for five minutes with a plunger.
- 2) After mixture has been thoroughly stirred, add (½ Lt Dom/1Lt Ind) of **Floc 2** and stir again for a further three minutes.
- 3) The material is then to be left at least overnight, or for 24 hours to allow optimum result.
- 4) Open tap, which is located on the water filter, and allow water to run into the sewer.
- 5) The sludge which is left over, after all the water has drained, is to be pumped into the filter bag/s.
- 6) Once all sludge has been pumped and the tank is completely empty, the filter bags are to be emptied into the empty buckets provided.
- 7) A Fill One representative will remove buckets from site.

NOTE: This machine is strictly for waterbased products only and is not to be used as a refuse bin for food waste or any other waste material as this will result in machine clogging and costly damage.

Paint Disposal System Fees

The fees on the units are as follows:

R100.00 per day (Ex vat.)

Please note: We do not charge for weekends or public holidays.

This fee includes the following:

- 1) Flocculant A and Flocculant B, the solution used to separate and settle the paint compounds from the water.
- 2) On site maintenance of the units to ensure correct working order at all times.
- 3) Removal of all waste produce from the machine, when it has been used.
- 4) Onsite training of the machines to ensure correct operation.
- 5) Delivery and collection of the units, anywhere in the Western Cape area.

Furthermore, for long duration projects, we will arrange a cap of R15000.00 (All inclusive) whereby if the total usage fee amounts to R15000.00, we will cease to charge for the unit and it may still be used free of charge until the project is complete.

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