



ENVIRONMENTALLY FRIENDLY • NON-HAZARDOUS • NO SPECIAL EQUIPMENT

TOP-SEAL WHITE (TSW) LANDFILL APPLICATION PROCEDURES

There are no special equipment or handling procedures required for applications with TSW in landfill composite liners or covers. The product is **environmentally friendly** and contains no toxins or any other type of hazardous materials.

DILUTION RATE

1 : 5

PRODUCT TO WATER

The water should be added first to ensure thorough dispersion of the TSW and to prevent the concentrated form of the product from clogging the PTO and the nozzles of the spray bar. With the exception of saltwater, any kind of clean water will be suitable for dilution with TSW.

Applications with TSW on a landfill cover can be most effectively administered via a water truck for the flat surfaces and gradual inclines, and for steeper slopes, a firetruck style hose that is capable of broadcasting the product downward, in a sweeping motion, over a very large area of coverage would be suitable.

TWO EVENLY DISTRIBUTED PASSES

1 FIRST PASS

The first pass will be allowed to completely soak into the surface, and will be compacted as thoroughly as possible to increase the density; thereby, creating a solid barrier against escaping methane gas and infiltration of contaminants. The person in charge of spraying should be thoroughly briefed on making the application as efficiently and thorough as possible.

2 COMPACTION

Compaction can begin when all of the product has completely soaked in to the surface. If possible on the inclines, a pneumatic roller is ideal for this type of compaction. If a steel drum roller is used, then precaution should be taken to prevent excessive adhesion of the soil to the drum — this can be overcome simply by waiting longer for the surface to dry out.

3 WAIT 24 HOURS

It is not necessary to administer the second pass on the same day as the first. It is actually beneficial to wait at least 24 hours for the second pass. This will allow TSW to begin the curing cycle, but as a natural occurrence in the soil, there will typically be a formation of superficial surface cracks. They are neither caused or prevented by the presence of TSW; however, the second pass will provide an effective sealant over these types of deformities.

4 SECOND PASS

The second pass will **seal the surface and the cracks**, thereby making the cover even less penetrable and it will help compensate for gaps in the coverage from the first pass. It is important to keep the spray pattern in constant motion to help prevent runoff from the compacted surface. Further compaction is not needed for the sealant application.

SIMPLE, PROVEN, EFFECTIVE

Overall, applications with TSW are relatively simple to administer, and with proper procedures and sufficient quantities, excellent results can be expected. Please contact TPI for more information.