



SURFACE SOLUTIONS
FOR GRASS & GRAVEL

TechTurf

Mesh element mixing procedure using wheeled loaders

(5.45g/m² rate)

1. TechTurf rootzone is created by blending TechTurf mesh elements with the specified rootzone material using a wheeled loader.
2. The rootzone material should be moist to promote cohesion and mixing. However, mixing should not take place during rainfall or with excessive water present as this will adversely affect the properties of the mix.
3. TechTurf mesh elements are supplied in 20kg bales formed from layers of elements rolled between polythene film on a tubular cardboard core. The mesh elements are manufactured in a BS EN ISO 9002 certified environment. QC batch labels are placed inside the core. (This should be recorded if any quality related problems arise.)
4. The bales are protected by a polythene sleeve which means they can be stored outside.
5. Calibrate the capacity of the bucket on the wheeled loader.
6. A 20kg bale of mesh elements is sufficient for 6.6 tonnes of rootzone material i.e. 60kg is sufficient for 19.8 tonnes etc. Spread out measured quantity of rootzone material (say 19.8 tonnes) roughly 300mm thick on clean hard surface, e.g. concrete or asphalt.
7. Unwind a bale over the layer of rootzone material and disperse the elements manually.
8. Blend the rootzone material and elements coarsely using a wheeled loader.
9. Unwind another bale of elements over the mix and repeat until the required quantity of elements has been added.
10. A 19.8 tonne blend is a convenient quantity for a large wheeled loader (or two small loaders) to handle. For quantities greater than 20 tonnes build up several sand/elements layers using two machines.
11. Lift and drop the coarse blend into an adjacent pile using the wheeled loader. It is important not to push the layers into the pile as this will roll the elements and cause them to bunch.
12. Repeat until the blend is completely uniform; usually a total of four times.
13. Quality control: A 20kg sample of rootzone should contain 60.6g of ADP mesh elements. Allowing for errors in sampling, a mesh content between 54.4 and 66.7g is acceptable for individual samples. Regular checks should be made to reconcile rootzone material tonnage with the number of bales used.
14. The rate of inclusion and the mix consistency are very important.
15. Mechanical mixing with specialist plant may be more appropriate for large quantities. Details of suitable methods and equipment are available from ADP Limited.

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