

DustSeaLOR and Coal Stockpiles

The purpose is to protect coal stockpiles from the ingress of rain. The tests carried out below are using coal from the stockpile but it was not possible to compact as tightly in the laboratory situation. The results speak for themselves in photographic form.



For the test the coal was heaped onto foam and treated at 10% dilution, the cup was recessed into the bottom and a lip was put around the edges. Three holes were drilled within the cup area.



Sowing the recessed cup and the drip grooves.

This was then stood into a plastic container as below.





A spray head was fitted to a funnel and one litre of water was poured as evenly as possible over the coal to replicate rain fall.



Above shows the water in both containers:



Only 7 mls from the litre of water got through to the cup.

Conclusion:

Provided that the stockpile is suitably compacted and the fines come to the top one or two coats of a 10% dilution will greatly reduce the amount of water entering the stockpile. The more viscose the DustSeaLOR the more effective it can be in this particular application.



For a wind test the wind wizard was used and the stream of air was over 60 mph or in excess of 28 metres/second and nothing moved.