



SOUTHAMPTON AIRPORT

Combined Soil Stabilisation have recently completed a project on Southampton Airport.

CONTRACTOR
VOLKER FITZPATRICK

PROCESS HBM 3 WEEKS

A supersonic response was required due to a late change of method from batched and paver laid HBM to mix in place HBM as the foundation to increase the length of the current runway to allow for larger plains to land helping increase the airports capacity.

As the stabilisation works were on a live airport every operation had to be undertaken through the night after the last plane had landed and completed well before the first departure the following day.

The works re-used previously laid HBM, which was pulverised by one of our ten 240i Wirtgen mixers prior to adding cement and water to achieve a high compressive strength. The mix in place Hydraulically Bound Material was compacted then trimmed to tight trim tolerances due to this being the last foundation layer for the pavement (runway foundation).

Compaction was achieved using our new 20t HAMM CCC roller followed by a Bomag 120 roller for a super level finish. This was followed by a bitumen curing emulsion to seal the layer to ensure curing was optimised.

All the works were completed in a very short timescale due to the airports requirements to get the extra length on the runway to allow for more planes and passengers to use the airport.



