

DuPont™ Ground Grid

A COST-EFFECTIVE POROUS PAVING SURFACE SOLUTION

Case Study – Car Park

**Application:**

Car park

Product:

55mm x 50mm
(55mm cell opening)

110mm x 50mm
(110mm cell opening)

Infill:

10-14mm angular gravel
(55mm cell opening)

25-35mm angular gravel
(110mm cell opening)

Customer objective was to create a stabilised parking area for staff cars, in an existing car park.

The sub base of the existing car park was sound but uneven. To tarmac the area was ruled out by the need to install new drainage which would provide an outlet for water run off. As this area was being used by vehicles it would have also been necessary to install an oil interceptor to filter the run off water before it entered back into the water course.

DuPont™ Ground Grid was selected as it was the most cost effective solution to provide stabilisation for the cars and would act as a SUDs solution for water run off and natural filtration of the water by it passing through the gravel and cell walls of the DuPont™ Ground Grid.

Both DuPont™ Ground Grid sizes were used to see which one would perform best for parking cars.

A mechanical excavator was used to remove just the top 75mm surface of the existing car park. The DuPont™ Ground Grid was then laid, and part hand filled and mechanically filled then surcharged with the aggregate.

15 Car parking spaces were created by three installers, within two hours. The installers were unskilled in this type of project.

This project was undertaken in January 2007. The site was re-visited in May 2007, having been trafficked over these three months, it had also been exposed to extreme weather conditions of rain, frost and sun.

The installation has maintained its stability, without gravel migration or rutting, there was no clear distinction between the two products laid.



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