SoilScience

Case Study

M62 Compound

Soil Science Installed a 33,000m2 Site Compound to accommodate Costain and their supply chain for the M62 J21a - 26 SMP Alliance Scheme.

SUREGROUND™
Reversible Soil Enhancement System

All below figures are based on the as built install only. We would expect to also see significant benefits during the decommission.

38%
Cost Saving

69%
Programme Saving

100%
reduction in material sent to landfill. Down from 6,600m3 to zero

1,660 8-Wheel Tipper Lorry Movements Reduced

4,050m³ reduction in imported aggregate

33,000m² treated area for temporary construction.

*all savings are approximate when compared to a traditional stone construction install.

SUREGROUND™
Reversible Soil Enhancement System

Project:
M62 J19 Compound
Location:
Manchester

Client:
Costain on behalf of SMP Alliance

Area Covered:
33,000m²

Soil Science were employed by Costain to install a large multi-function compound, utilising our Sureground system, to facilitate upgrade works on the M62.

A hybrid design was implemented to meet client requirements, utilising two of Soil Science's surfacing options :

- 'Standard' surface - 100mm of laid and compacted Type 1 stone (below and around modular accommodation)
- 'Armoured' surface – 150mm of bound Type 1 for added hardwearing/ longevity (for plant/ material laydown)
    - Surface Armouring is completed by mixing type 1 stone with further binder to achieve surface performance of up to 100% CBR.

Costain also opted for asphalt to staff/client parking and access roads, in these locations SSL laid a 75mm regulating layer, on the treated subbase, ready to receive the asphalt.

Soil Science undertook preconstruction testing to determine the binder design, plus record data to facilitate future decommissioning/ reversing. The SUREGROUND™ system is fully reversible, returning treated soils/ subbase to their pre-constructed condition, with data provided to client to corroborate this, as per Defra indices.

Soil Science mobilised to site January 2023 and began by undertaking a full topsoil strip. With our dust-free mixer, SUREGROUND™ was mixed with subbase in-situ to a depth of 350mm. With mixing complete, validation testing was carried out to confirm design strengths were achieved prior to the surface being applied. Soil Science provided Costain with QA information at handover to demonstrate compliance with our engineered design/ client requirements.

"Overall, I was extremely happy with the works and would highly recommend using SSL in the future"

Costain Site Agent

Soil Science's 'Standard' and 'Armoured' surfacing options in the foreground. The client has also opted for an Asphalt finish for their site office parking spaces

Section view of our finished 'Armoured' surface, often used as a cost effective, yet more durable, alternative to asphalt

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