

Hardstand Construction using DUX W155 Geotextile

DUX W155 woven geotextiles provide the strength of a geogrid, together with the separation function of a geotextile, at a fraction of the cost. At this hardstand project north of Kilmore a suspect subgrade had failed proof rolling. W155 was installed with a capping layer of 300mm compacted soft rock, followed by 150mm of crushed rock. Subject to heavy loads of 100 tonne crawler cranes and heavily loaded semis, through the wettest winter for 25 years, the pavement is holding up well.



Read the testimonial from NVC Managing Director Danny Kleinitz:

“The project involved 500LM of the access road and 13500m2 of permanent hardstand to accommodate heavy plant, equipment and materials commencing in April 2021. Apart from the first week of work we experienced rain nearly every week and this then totalled by the end of winter and completion one of the wettest winters in 60 years. We managed to get most of the unsuitable overburden stripped to stockpile. Commencing the cut to fill of the underlying variable water sensitive clays we started to experience wet weather. While we managed this by keeping compaction of all fill up to speed as it was been placed we still had issues with the quality of the material been placed achieving suitable compaction. Once we had the main cut to fill bench completed we had to leave the site idle for period due to intense wet weather but to also plan the next part of the works including reaching out to SGS for advice on improving the completion of this hard stand and access road with certainty of the quality we desired due mainly to the lower the expected performance of the natural clays. SGS provided this advice and recommended an inexpensive product to provide the quality on completion we were searching for. In addition the advice provided , 300mm base layer(sourced locally) with 150mm capping layer of 40mm class 2 proved fruitful both commercially and for quality.

As you will see in the photo's the hardstand and access road is performing very well. Some stat's since completing in early July 21:

- Multiple OSOM loads up to GVM of 120 tonne have traversed the access road and hardstand;
- 100 tonne Crawler crane has worked and moved around the pad effortlessly;
- We have had in excess 100 semi loads delivered to this site to date since completion;
- No softies or pavement failures to date which we believe is a result of the product and advice provided by SGS.

Thank you for your patience and advice.”

