

The refurbishment and upgrade of the Kyalami Grand Prix Circuit has entered its fifth month. The exciting new circuit layout is now clearly visible as the surface is being prepared for the first layer of new asphalt.

The underpass is nearing completion and the service road and parking areas are receiving new asphalt layers. The fencing teams are hard at work erecting spectator and debris fencing and new barriers are being erected in various sections of the circuit. The demolition process is nearing completion as spectacular spectator views are slowly being revealed. Work continues on the run-off areas and gravel traps with tyres continually being sorted and strapped for later placement on track. Few signs of the "old" run down Kyalami are evident as a new exciting era starts to come to the fore.



The Kyalami Pit Building Project

Six weeks have passed since the commencement of the Kyalami pit building project. This construction project will see a complete refurbishment and various extensions to the building. The building is now completely stripped leaving only a concrete and steel shell with only structural and support elements remaining. The piling for the new support pillars which will carry the extended slabs at the rear and sides of the building are also nearing completion. The side staircase and old Telkom mast are among the final elements still to be demolished. The old Pad-dock bridge has also been removed to be replaced by a wider more modern design.



The resurfacing of the Kyalami Grand Prix Circuit

After years of neglect the Kyalami Grand Prix Circuit required a complete rehabilitation and resurface. With the change in the layout of the circuit it was decided to completely strip to the base layer the old asphalt in order to create a new uniform surface. The base layer was retained whilst the old asphalt layers were milled to create a rap material that was used as part of the process of surfacing all the service perimeter roads. The retained base layer has been cleaned and an emulsion added to improve longevity and create a good foundation for the new asphalt layers.

Base construction

The new extensions to the existing track have been built utilising G1 crushed stone treated with a bitumen emulsion to increase elasticity to the base. This treatment process increases the density when compaction is done on the treated base, which will ensure the longevity of the asphalt. This will assist in reducing any future maintenance.

Asphalt design

The new asphalt design required a 5% polymer modified binder to provide the necessary strength to cope with the stresses and stains generated in the braking areas and corners of the circuit. The asphalt is being laid by pavers utilising ultra-sonic levelling beams to ensure smooth grades and joints.

New base layer works have been constructed using a grader utilising a Trimble levelling system. This equipment is used to ensure an accurate level. The Trimble equipment makes use of pre-set design levels incorporated with a satellite GPS system to ensure the accuracy of the design levels.

The resurfacing of the circuit has now commenced.





KYALAMI

GRAND PRIX CIRCUIT 

NEWSLETTER

ISSUE 9
15th SEPT 2015

