



SAMifalt Multigrade Plus

High Performance through improved temperature susceptibility



Member of the worldwide Colas Group



Australia

ANOTHER INNOVATION FROM SAMI BITUMEN TECHNOLOGIES, PROVIDERS OF INNOVATIVE SOLUTIONS TO THE ROAD INDUSTRY

SAMIfalt Multigrade Plus is an un-modified multigrade bitumen with very low temperature susceptibility.

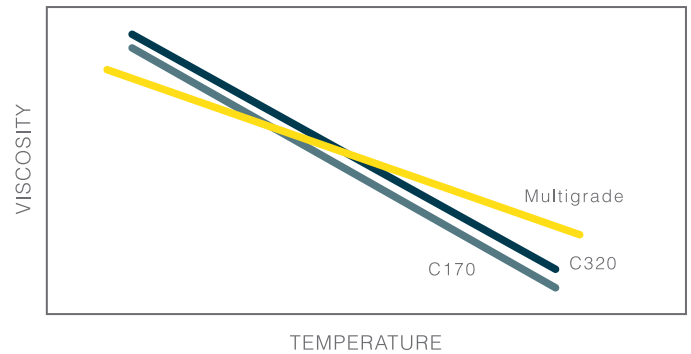
It is designed to provide improved fatigue resistance resulting in reduced cracking at lower pavement temperatures and high resistance to rutting at higher pavement temperatures.

SAMIfalt Multigrade Plus is manufactured to meet the Austroads specification AG:PT/T190 for M1000/320 and recommended for use in all dense grade asphalt mixes.

TYPICAL PROPERTIES

PROPERTIES	SAMIfalt Multigrade Plus
Viscosity @60°C after RTFO, Pa.s	3500 - 6500
Penetration @ 25°C after RTFO, 0.1 mm, min	26
Viscosity @ 135°C, Pa.s, max	1.5
Matter insoluble in toluene, % by mass, max	1.0
Flashpoint, °C, min	250
Loss on heating, %, max	0.6

IMPROVED PERFORMANCE BY REDUCED TEMPERATURE SUSECPTIBILITY



PERFORMANCE

- SAMIfalt Multigrade Plus provides a combination of durability and resilience benefits to the asphalt and significantly improves both the performance and life expectancy of the mix.
- The superior fatigue performance of SAMIfalt Multigrade Plus greatly improves crack resistance
- The asphalt which incorporates SAMIfalt Multigrade Plus has very good compactability and has very good hand workability at lower temperatures (around 100°C), a fact experienced both in the laboratory and in the field
- Good adhesive properties to a wide range of aggregates



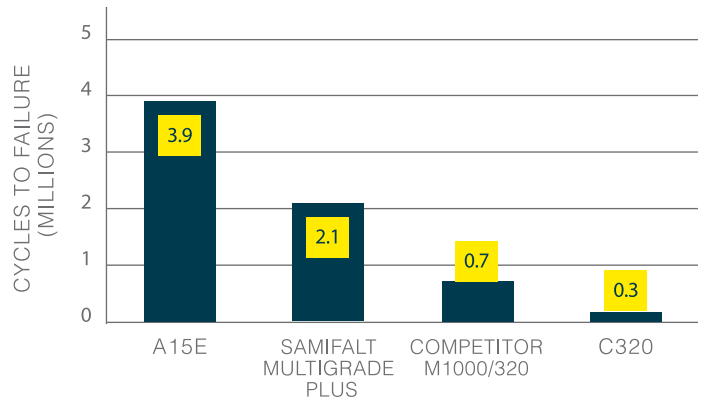
APPLICATION

- Binder of choice for airport applications
- Widely used for heavily trafficked and stressed pavements on main roads
- Successfully used on freeway entry/exit ramps
- Recommended on suburban streets to minimise maintenance

PRACTICAL BENEFITS

- The benefits of providing higher stiffness at service temperatures and the improved resistance to stripping made SAMIfalt Multigrade Plus as the binder of choice for Sydney Airport taxiway rehabilitation works
- Excellent cohesive properties of SAMIfalt Multigrade Plus enabled it to be successfully used in runway rehabilitation work at HMAS Albatross military base at Nowra, NSW
- SAMIfalt Multigrade Plus is preferentially used by Brisbane City Council as a cost effective versatile binder for the maintenance of their road network
- The combination of superior fatigue properties and low temperature susceptibility of SAMIfalt Multigrade Plus makes it an alternative to binders with low polymer modification

FATIGUE LIFE





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