

Hunua Cement Treated Basecourse



Winstone Aggregates Hunua Cement Treated Basecourse (CTB)

FEATURES

- Improved resistance to rutting
- Enhanced longevity
- Economical
- Ease of application
- Increased resistance to moisture
- Certified stockpiles

APPLICATIONS

Modified aggregates are an economical alternative to standard basecourse and can be used in a wide variety of applications including heavy trafficked highways, pavements and building foundations.

PERFORMANCE

Laboratory testing using repeated load triaxial testing equipment has found that low dosages of cement added to basecourse significantly improves moisture sensitivity and stiffness resulting in greater resistance to deformation when wet.



WHY CHOOSE HUNUA CEMENT TREATED BASECOURSE?

Dr Greg Arnold of Pavespec Limited (formerly TRANSIT engineering policy manager) has evaluated Winstone Aggregates CTB products and concludes “modified aggregate performs well even when wet and at low compaction the use of this material will reduce the risk of early pavement failure and thus is suitable for high trafficked state highways”. **Dr Greg Arnold, Pavespec Limited**

PROCESS OVERVIEW

Hunua CTB is produced in a high intensity mixing plant, blending cement and water with natural crushed basecourse. The use of a computerised control system enables a uniform dispersion of cement and moisture and ensures a very consistent product.

CUSTOMER TAILORED SOLUTIONS

The design and layout of the plant enables flexibility around the range of products and blends that can be produced. Winstone Aggregates can accommodate customers with contract specific requirements.

QUALITY CONTROL

Hunua Quarry adheres to strict quality control standards. Prior to blending, natural materials are kept in certified stockpiles. This helps to ensure that the finished product is consistent and to specification, resulting in a material that meets customer expectation. Test reports relating to both pre and post blend product are available for customers.



PROPERTY COMPARISON

Property (typical value)	Product		
	Hunua TNZ40	Hunua TNZ40 +2% Cement	Hunua Gap40 +2% Cement
Specification (natural material)	TNZ M/4	TNZ M/4	MR9
Throughput (tonnes/hr)	N/A	300	300
Repeat Load Triaxial (RLT)	11.0 million ESA's to 10mm rut within aggregate	+30.0 million ESA's to 10mm rut within aggregate	+30.0 million ESA's to 10mm rut within aggregate

DISCLAIMER: Buyers and users of Winstone Aggregates must make their own assessment of the products for their own conditions. All queries regarding product specification, purpose or application should be directed to a Winstone Aggregates Roading Account Manager, phone 09 525 9349.

For more information on Winstone Aggregates’ range of cement treated basecourse contact 09 525 9349 or visit www.winstoneaggregates.co.nz

