

Type 2.3 General Material (containing < 70% recycled materials)

Applications

This material is typically used in the construction of the roads; this may include the base, subbase, the lower pavement layers. Type 2 materials may be produced from either natural gravel, quarried, or recycled materials (or combination of these).

Technical Properties

Property	Specification - MRTS05 General Material (containing < 70% recycled materials)	Typical Result			
Particle Size Distribution	(% Passing)	(% Passing)			
75.0mm	100	100			
37.5mm	90 - 100	100			
19.0mm	80 - 100	100			
9.5mm	60 – 90	77			
4.75mm	42 – 76	59			
2.36mm	30 – 60	43			
0.425mm	14 – 28	22			
0.075mm	7 – 16	8.4			
Flakiness index (%)	≤ 40	25			
Moisture (%)	N/A	6.0			
Wet Str (kN)	≤ 70	165			
Dry Str (kN)	N/A	214			
W/D Variation (%)	≤ 40	23			
Liquid Limit	≤ 28	27.4			
Linear Shrinkage	1.5 – 4.5	1.6			
Weighted Linear Shrinkage	≤ 110	34.5			
Fines Ratio	N/A	0.39			
Degradation factor	N/A	25			
CBR MDD	N/A	2.07			
CBR OMC	N/A	10.5			
CBR %	≥ 45	130			
pH	≤ 11	9.6			
UCS (MPa)	≤ 0.7	0.5			
Foreign Materials Content (%)	Foreign Material	Test Method	Subtype	Maximum Percent in Mix (% by Mass)	
	Brick	Q477	2.1	1	N/A
	Asphalt		2.1	1	N/A
	Metal, ceramics and slag (other than blast furnace slag)		All	3	0.9
	Plaster, clay lumps and other friable material		All	1	0.0
	Rubber, plastic, bitumen not part of asphalt, paper, cloth, paint, wood and other vegetable matter		All	0.2	0.0
	Asbestos	Not permitted			Not present

Compliance

This product complies with the requirements set out in QLD DTMR MRTS05 Unbound Pavements - Type 2 General Material which may contain recycled materials up to 70%

Additional Requirements

Assessment and certification to the QLD TMR "Quarry Registration Scheme".

Note:

Typically hard rock materials that are available within the region are quarried from Metagreywacke deposits. These products have a tendency to change colour over time and will result in a change in colour from typical grey through to brown. The variance from grey to brown has little or no effect on the quality, durability or size of the final product.

Precautions

Suitable handling and work instructions should be developed for use of this product that takes into account safety information that is available on the Safety Data Sheet for quarried Meta-greywacke rock. The Safety Data Sheet is available from Nucrush's website at www.nucrush.com.au or by contacting Nucrush on Tel 07 5573 8000. Nucrush Pty. Ltd. Administration Tel 07 5573 8000 Fax 07 5573 2908

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