BENEDICT SAND & GRAVEL

MATERIAL SAFETY DATA SHEET

Revised 25/05/2008

Benedict 20mm Recycled Road Base

Product Code

20RB/R, 20DGBR & 40ROC ♻

Source

BENEDICT Moorebank

Disclaimer

The product data contained in this Product Data Sheet is applicable to Benedict Sand & Gravel materials and is current at the time of publication. Benedict Sand & Gravel reserves the right to vary product specifications without notice. The data contained within this sheet supersedes all previous information. Customers are advised to consider the new Protection of the Environment Operations Regulation 2008 (EPA) regulations relating to the use of recycled materials. For further details see www.environment.nsw.gov.au

Description

Benedict 20mm Recycled Road Base is an innovative recycled road base material engineered to provide a permanent, firm and durable support for pavements.

♻ denotes recycled product containing man-made objects such as but not limited to glass and plastic.

Components

100% crushed recycled building and demolition waste, which includes, but is not limited to, bricks, tiles and concrete. Tested in accordance with Australian standards, the material is manufactured to conform to Table 2 of Resource NSW's Specification for Supply of Recycled Material.

Uses

Benedict 20mm Recycled Road Base is a graded base course engineered for use as a sub-base beneath pavements. The material achieves a permanent solid firm base when properly installed. The **20mm Recycled Road Base** can also be utilised as a foundation under concrete slabs in the construction industry, or as a sound base course for heavy machinery, construction areas and storage containers.

Benefits

- Recycled product ensures reduced landfill and natural resource usage
- Partial stabilisation due to existing concrete content
- Conformance to NSW Government standards

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Benedict 20mm Recycled Road Base Contd.

Test Method	PHYSICAL PROPERTIES	TYPICAL RESULT	SPECIFICATION
	% Passing A.S. sieve		
AS1141.11	26.5mm	100	**100**
	19.0mm	93	**80-100**
	13.2mm	83	**70-90**
	6.70mm	61	**45-70**
	2.36mm	43	**30-55**
	0.425mm	23	**10-30**
AS1141.12	Material finer than 0.075mm	7	**5-15**
AS1141.14	Misshapen Particles (%)	7	**Max. 35**
AS1141.22	***Wet/Dry Strength***		
	Average Dry Strength	84	
	Average Wet Strength	50	**Min. 50**
	Wet/Dry Strength Variation (%)	40	**Max. 40**
RTA T111	***Standard Compaction***		
	Maximum Dry Density (t/m3)	1.84	**N/A**
	Optimum Moisture (%)	13.7	**N/A**
RTA T114	Maximum Dry Compressive Strength (MPa)	2.4	**Min. 1.0**
RTA T116	Unconfined Compressive Strength (Mpa)	0.3	**Max. 1.5**
RTA T117	***California Bearing Ratio (%)***		
	2.5mm	170	**N/A**
	5.0mm	180	**N/A**
RTA T276	***Foreign Materials Content (%)***		**(Max)**
	Reclaimed Asphalt:	1.5	**40**
	Clay Brick/Tile, Crushed Rock, Masonry:	11.0	**30**
	Metal, Glass & Other Ceramics:	0.4	**5**
	Plaster, Clay Lumps & Other Friable Materials:	Nil	**0.2**
	Rubber, Plastic, Bitumen, Paper, Cloth, Paint, Wood & Other Vegetable Matter:	Nil	**0.1**

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Benedict 20mm Recycled Road Base Contd.

Transport & Placement

Ensure that the material remains moist at all times during transport and placement. Material may be discharged from the truck into stockpiles or directly into the location where it will be finally used. If drying or particle segregation occurs the material must be remoistened and mixed prior to placement to achieve a homogenous blend of all components. Each truckload of material is delivered with a delivery docket identifying the material type and the tonnage of material delivered. It is recommended that the material be placed in 100mm layers and compacted.

Safety & Handling

Description

This product is composed of recycled products that contain high amounts of silica, and other compounds such as alumino-silicates and carbonates.

Risk

Inhalation of dust and/or liquid mists may irritate, inflame or sensitise the nose, throat and lungs resulting in illnesses ranging from hay fever or asthma to pneumonia-like illnesses. Direct contact with this material or this dust and/or liquid mists (bioaerosols) may cause skin irritation (dermatitis) and skin or eye infection or irritation. People particularly at risk are those suffering from asthma or allergies, and those with weak immune defence.

Safety

Avoid contact with eyes and skin. Avoid breathing dust/and or liquid mists (bioaerosols). Wear suitable protective clothing and standard duty gloves (AS 2162.2). If exposed to dust and/or liquid mists, wear dust resistant eye protection (AS/NZS 1336) and a particulate respirator (AS/NZS 1715 and 1716). Wash thoroughly immediately after handling. Wash work clothes regularly. Clean up by wet sweeping or vacuuming.

First Aid

Irrigate eyes with plenty of water for 10 minutes. Wash skin with soap and water. Seek medical attention for any persistent skin, eye or respiratory symptoms.

Note: Please refer to the appropriate Material Safety Data Sheet for more specific safety and handling information.

Complimentary Products

20DGB/R, 20ROC, 20HARD, 20DGB, RTA Select Fill (40CSS, 75 CSS)

Technical Enquiries

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