

Benedict SmartMix™ I – Turf Root Zone Mix

Product Code	M30
Source	BENEDICT Menangle
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.
Description	Benedict <i>SmartMix™ I</i> Turf Root Zone Mix is a unique -2mm washed alluvial sand.
Components	100% Washed fine/medium sand
Uses	<ul style="list-style-type: none"> > Root Zone Mix for high traffic areas such as Golf Tees and approaches, sports fields and well used inner city turf areas. > Top dressing of sports fields and high quality amenity turf > Free draining sub soil for planter box mixes (OM <1%).
Benefits	<ul style="list-style-type: none"> > Product undergoes regular analytical testing > High resistance to compaction > Enhanced aeration to provide oxygen for deep root growth and related soil biological activity > Rapid drainage of excess surface water > Increased effective precipitation due to reduced surface runoff > Friable and easy to work > Year round supply from long term source ensures continuity of supply and consistency of the soil profile



Benedict *SmartMix*TM I – Turf Root Zone Mix Contd.

How to build a Benedict *SmartMix*TM Turf Root Zone Profile

Benedict *SmartMix*TM I is a superior quality growing medium ideal for use as a base under turf. It carries our *SmartMix*TM brand and is fully supported by our extensive research and testing services.

SmartMixTM Turf Profile No. 1 is engineered to create a perched water table in the root zone. It is intended for intensively managed and irrigated high use lawn areas. The gravel also acts as a bridging layer preventing the upward capillary movement of salts from the subgrade into the rootzone.

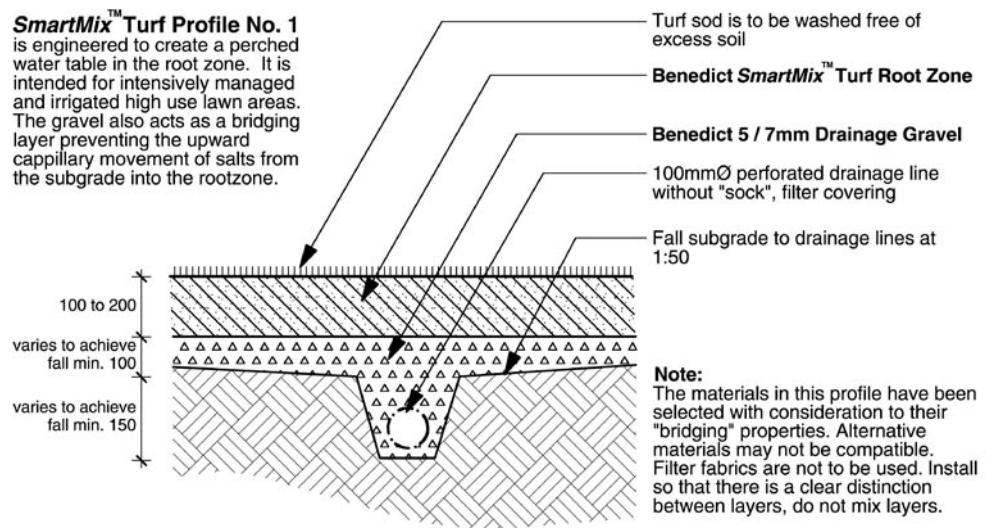


Figure 1. Benedict *SmartMix*TM I Turf Root Zone Profile No.1 showing construction of the root zone over a gravel layer to achieve a perched watertable.

SmartMixTM Turf Profile No. 2 is for general use turf areas where the budget and or usage demands do not require a perched water table. Generally this profile is non-compacting and very free draining. An irrigation system is strongly recommended.

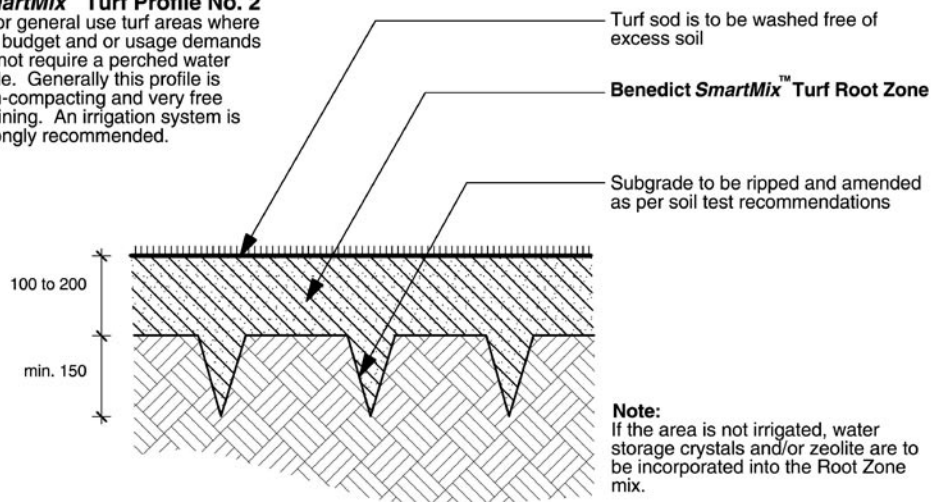


Figure 2. Benedict *SmartMix*TM I Turf Root Zone Profile No.2 for standard turf applications.

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Test Method	PHYSICAL PROPERTIES	TYPICAL RESULT
	% Passing A.S. sieve	
ASI 141.11	2.36mm	100
	1.18mm	99.9
	0.600mm	94.1
	0.425mm	63.1
	0.300mm	24.6
	0.150mm	2.9
ASI 141.12	Material finer than 75 microns (%)	1.5
ASI 141.4	Uncompacted Bulk Density (t/m ³)	1.35
	Compacted Bulk Density (t/m ³)	1.52
ASI 141.33	Silt Content (%)	6
RTA T264	Soluble Salts (%)	<0.3
AS4419.D	Electrical Conductivity (mS/cm)	0.03
AS4419.D	pH in water (1:5)	5.9

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 particle segregation occurs the material must be remixed 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.

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Safety & Handling

Description

This product is composed of virgin excavated natural material that contains high amounts of silica, and other compounds such as alumino-silicates.

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. For inhalation, remove to fresh air. 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.

Alternative Products

Sand/soil blends, washed sand, soil/compost blends

Technical Enquiries

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