

PRODUCT DESCRIPTION

ROOTGUARD and ROOTGUARD PLUS are used to protect buildings, walls, paths, drainage pipes, cables and lawns from potential damage caused by root development.

Tree roots grow very close to the surface and are the cause of considerable damage. Structures with shallow foundations can be undermined. Damaged pipes, or pipes with faulty joints, can become blocked by roots. Root growth is also known to cause desiccation of soils to the extent that soil structures may subside and crack, and in these circumstances expensive underpinning may be the only solution.

The choice of ROOTGUARD product will depend upon application: specifically whether water needs to pass through the product.

ROOTGUARD - Permeable edition
in some instances it may be necessary to have a water-permeable solution e.g. surrounding land drains. Although some permeable barriers may not provide the highest level of protection (see ROOTGUARD PLUS), they still provide excellent resistance.

ROOTGUARD is a geotextile manufactured from polypropylene/polyethylene fibres. It provides excellent resistance to root development; confirmed in numerous trials and commercial projects. ROOTGUARD has high tensile strength, high puncture resistance and is capable of withstanding the differential forces that can develop in clay soils.



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ROOTGUARD: Non-woven geotextile

ROOTGUARD PLUS: Non-woven geotextile extrusion coated with high density polyethylene

TESTED PROPERTIES	TEST METHOD	UNITS	ROOTGUARD	ROOTGUARD PLUS
TENSILE STRENGTH	EN ISO 10319	kN/m	18.0	14.0
ELONGATION	EN ISO 10319	%	30	25
CBR PUNCTURE RESISTANCE	EN ISO 12236	N	3250	2550
MASS PER UNIT AREA	EN ISO 9864	g/m ²	260	275
ROLL WIDTH		m	2.25	2.00
ROLL LENGTH		m	25	25

DURABILITY

This product is predicted to be durable for more than 25 years in soils with a pH in the range 2 to 14 and with a temperature of less than 25°C .

Chemical Resistance

Polypropylene and polyethylene are unaffected by the chemicals which normally exist in soils.

Biological Resistance

Polypropylene and polyethylene are not nutrients for micro-organisms and do not provide nourishment for animals & insects e.g. rats and termites.

UV Exposure

Rootguard products are delivered to site in polythylene wrapping to protect against the effects of ultra-violet radiation. It is recommended that the products remain wrapped until their installation. Once unwrapped, the products should be completely covered with fill within 14 days to avoid exposure to UV radiation.

1. TCS Geotechnics is a trading name of Technical Civils Solutions Ltd
2. TCS Geotechnics Ltd reserves the right to alter product specifications without prior notice.
3. It is the responsibility of all users to satisfy themselves that the above data is current.
4. The above figures are average values obtained from testing to current EN ISO standards
5. TCS Ltd cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
6. Installation details are available on request.

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