

MIXGEOTEX-400

Geotextile membrane for soil and water management in construction sites

Mixgeotex-400 is a needle punched nonwoven geotextiles which are versatile in solving many soil and water management problems found in construction, roofing and road building. Our range of products is engineered from high quality chemically inert and UV stable polyester or polypropylene fibres which become an integral part of the fluid and vapour management system. Various mechanical, hydraulic and filtering criteria imposed by soil and construction conditions are met by our materials. Mixgeotex materials are designed to perform the following functions:

Drainage:

The ability to convey water and vapour across the plane of the fabric. Removing excess rain and ground water prevents soil saturation, pressure build up and stagnation. Our nonwovens have excellent permeability to match condition requirement.

Filtration:

The ability to convey water through the plane of the fabric while preventing movement of soil particles. Needle punching creates a fabric structure with a high distribution of pores through the thickness such that water flow remains high while soil particles are retained.

Reinforcement:

Localised loads are distributed over a larger area of subgrade by placing the fabric in tension. Elongation, toughness and good soil adhesion ensure adequate placement and support. When impregnated in paving or roofing applications stresses are relieved and crack propagation is prevented.

Protection:

When placed over a membrane our fabric provides a layer of protection from puncture. Vapour and hydraulic pressure is also relieved due to the fabric's permeability. Underneath riprap the subgrade is protected from erosion by controlling water flow and soil piping.

Separation:

Two materials are prevented from mixing during installation and subsequent use. Keeping aggregates separate from the base soils maintains the drainage and load bearing characteristics of each layer.

Appropriation

Mixgeotex-400 nonwovens are used in the following applications: land reclamation, breakwaters, harbours, marinas, and membrane protection, land fills foundations, landscaping, bridge supports, abutments, basal drains, and asphalt and roofing overlays.

Technical specifications

Fabric weight: 400g/m² (ASTM D5261)
Thickness (2kN/m²): 4.0mm (ASTM D5199)
CBR Puncture strength: 4100N (ENISO12236)
Tensile strength: 950/1600N/5cm (EN 29073-3)
Puncture strength: 900N (ASTM D 4833)
Elongation: >70% (EN29073-3)
Grab strength: 980/1650N (ASTM D 1632)
Grab elongation: >70 (ASTM D 4632)
Water permeability K Value: 0.26cm/s (ASTM D 4491)
Roll size: 3 x 100mtr roll

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THE CONSTRUCTION CHEMIST

Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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