



ACETex[®]



ACE Geosynthetics



Discover ACE Geosynthetics

Since established in 1996, ACE Geosynthetics Enterprise Co., Ltd. has grown into the leading “Geogrid” and “Geotextile” supplier in Taiwan. We not only provide the most comprehensive range of Geosynthetic materials but also actively participate in national and international working groups and research committees.

Excellent staff assistance

The best performance of ACE team work becomes a distinctive characteristic, which makes ACE a big difference. Our engineers provide the most economical and professional solutions to all inquiries.

Perfect durability product

Since our organization grows with participation of outstanding and proficient staffs, all our products achieve the satisfaction of clients by offering the prime and durable materials to elevate the structure safety and extend the service life. In order to reach the needs of our customers, ACE Geosynthetics allows customized design in products, provides the structure analysis and offers the engineering consultation and evaluation.

Top quality with durable products and customer-oriented service are the keys which lead ACE Geosynthetics to expand the markets rapidly and globally. Within ACE, you can always find out the answer for the diverse engineering applications.



The structures of ACE Geotextile known as ACETex[®], which is woven by high tenacity Polyester or Polypropylene yarns. The ultimate tensile strength of polyester geotextile can be reached over 1000kN/m for uni-axial strength and up to 300kN/m x 300kN/m for bi-axial strength. In addition, for polypropylene geotextile, the ultimate tensile strength of 650kN/m can be reached for uni-axial strength and up to 300kN/m for bi-axial strength.

The great strength of yarns with impressive two-way support allows resistance against extremely high tensile loads. Due to its light weight comparing to traditional materials, using ACETex[®] offers the advantages of easy construction and cost effective methods. Undoubtedly, the optimum effects can be approached with simple works.

ACETex[®] is extensively applied for reinforcement structures, such as Mechanical Stability Earth Walls, Reinforced Soil Slope, reinforced embankments, soft foundation improvements and other geotechnical engineering applications for increasing soil shear strength.

ACETex[®] has been adopted in construction of roadway and airfields to either increase the life of the pavement or reduce cost. Moreover, ACETex[®] has moderate opening size and high permeability with innovative weaving structure. It can be widely used for reinforcement, separator, containment and filtration in long term scale.

We do ACE right !



Applications

ACETex[®] redeems the inadequate tensile strength of soil in order to achieve the stability of structure and restrain the deformation of the reinforced structure.

Soft Soil Treatment

ACETex[®] placed on soft soil is like a membrane to redistribute stress and restrain lateral movement of soil particles. While ACETex[®], the separator, is laid between soft soil and aggregate, It distributes normal load and makes the settlement evenly.



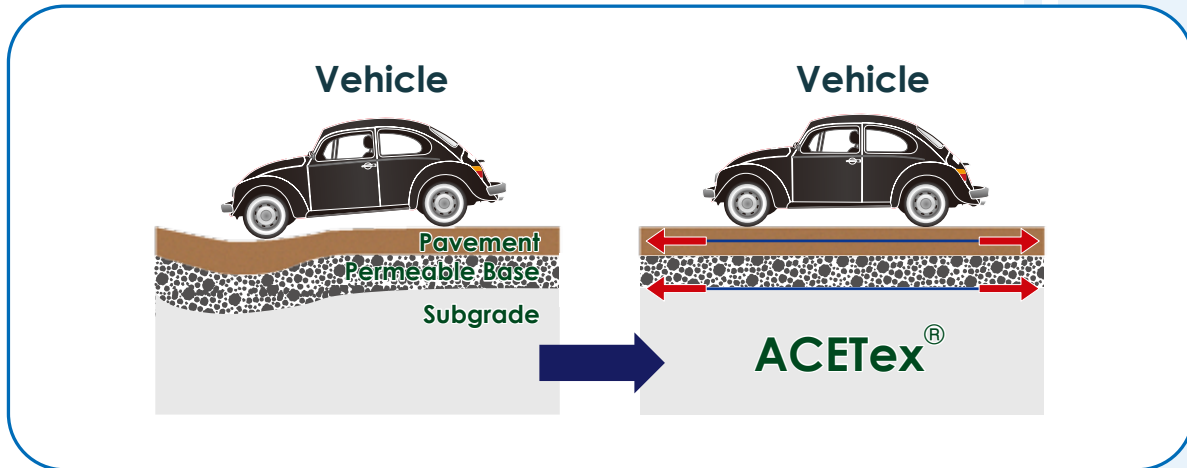
Geosynthetics Reinforced Earth Retaining Structures

Mechanical Stability Earth Walls and Reinforced Soil Slope with ACETex[®] are cost-effective alternatives for most civil engineering applications which consist of retaining wall, bridge abutment, rockfall structure, embankment, road-widening, landslides mitigation.

Reinforced earth retaining structures with ACETex[®] give more flexibility to the structure to tolerate better foundation settlement and seismic loading, compared with the conventional reinforced concrete structures.

Additionally, ACETex[®] is good for steep structure applications with limited hinterland or the right-of-way issues. The land use and backfilling cost concerns will be eliminated, hence.





ACETex[®] has good performance in reinforcement, filtration and separation.

Road and Airport

High tensile strength ACETex[®] can be applied in a mixture of road surfaces between, for instance, asphalt surfaces, base and asphalt surfaces or subgrade and base surface. The demand of aggregate is declined, thus, ACETex[®] provides reinforcement, separation and filtration functions in road and airport applications and precludes intermixing between dissimilar materials.



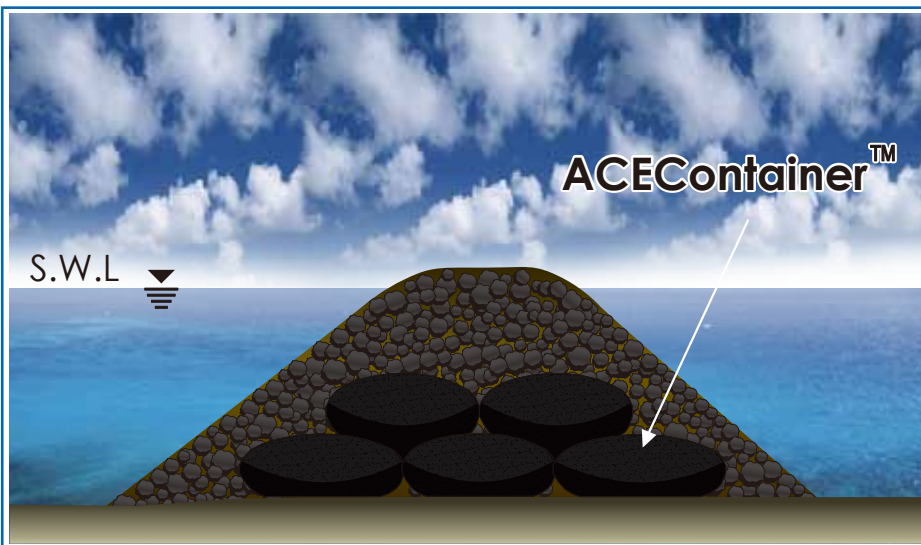
Railway

ACETex[®] offering membrane effect in railway applications, supports the traffic load and redistributes the stress equally to lessen local aggressive settlement. With suitable pore size and good permeability, ACETex[®] delays pumping problem along the railway, which causes settlement and rail distortion, and prolongs the service life of railway.



ACEContainer[™]

ACEContainer[™] a large fabric cell, is made from high strength and good permeability geotextile to form a large fabric cell through experienced seaming technique. To the open water, dropping ACEContainer[™] filled with dredged slurry or dry sand at chosen location can form underwater berm, dikes or earthen structures. Because of minimum impact on the environment and the cost effectiveness in relation to installation and placement, ACEContainer[™] is proven to be a very viable alternative.



Geotextile Container Applications

Breakwater

ACEContainer[™] is used in the breakwater construction where lacks in-situ rock or suitable filling materials and in a dam where ACEContainer[™] sits in the core and a large number of sand and rock is required to form a steeper slope.

Foundation protection

In view of current or wave attacks, a berm turns necessary to be constructed for protect dike or dam. A berm built up by ACEContainer[™] avoids sands being washed away. Erosion issues can be removed.

Environment protection

A bulky ACEContainer[™] is capable of carrying a great quantity of waterway slurry dredge and contaminated sediment for disposal. Apparently costs of transportation, processing and time are lessened wisely.



ACEFormer™

ACEFormer™ is constructed with durable woven geotextile and suitable for diverse applications after filled with mortar or concrete elements. It is primarily installed to provide protection against rainfall washouts, high speed scouring and to compensate the uneven settlement of the underlying soil. In addition, vegetation can be cultivated within the open areas of ACEFormer™ allowing an ecological and environmentally-friendly scene.



Pipeline Protection and Support

Submerged cables are laid beneath the sea to carry telecommunications between countries. Cables can be broken by fishing trawlers, anchoring, undersea avalanches and even shark bites. Cables are also sometimes cut by enemy forces in wartime.

ACEFormer™ can be a flexible cushion to support the submerged cables above uneven seabed or different elevation caused by undersea avalanches or earthquake.

Submerged cables covered with ACEFormer™ can exclusively prevent from external damage. ACEFormer™ will be the best choice to preclude those pipeline damages.



ACETube®

ACETube® acts as the professional aid in the marine and environmental engineering, thanks to various and functional geotextile ACETex®.



Applications

Shoreline Protection

ACETube® can definitely stabilize as the natural barrier such as sand dune, revement and embankment. Using ACETube® is the very economical and efficient construction method for rapid coastline reconstruction and restoration.

Beach Nourishment

ACETube® can be designed as submerged breakwaters, groins and artificial reef. By means of ACETube® taken as submerged breakwater, the wave scouring and sand losses situations could be diminished.

Land Reclamation

ACETube® creates a natural habitat or an entirely new land by way of a cofferdam. ACETube® can be stacked several layers to produce the elevation necessary for backfilling and land creation.

Industrial Waste

ACETube® can be used in the waste dewatering application with the benefit of reducing 80 percent spaces for sediments volume and lowering the transportation and disposal cost.

Agricultural Waste

Agricultural waste comes from livestock, aquaculture and flushing barns, basically. ACETube® provides the treatment for agricultural waste without hardware sewage treatment facilities and costly mechanical dewatering procedure.

Fluvio-Marine Sediments

Sediments in reservoir, lagoon, river and outfall often affect the functionality and serviceability of the system. Placing ACETube® with filled discarded sediment functions as a protection structure.



ACEBag™

ACEBag™ is made of durable synthetic fabrics with adequate opening size, offers high permeability and good resistance to weathering and chemical contacts.

Gabion is commonly seen as a structure used in retaining geotechnical slope. Sometimes, due to the geology conditions, it increases difficulty to obtain rocks and stones. Not only versatility can be increased by placing ACEBag™ inside the gabion, but also the ACEBag's compatibility in dimensions will allow wholly fitting into in-situ conditions.



During construction



After construction

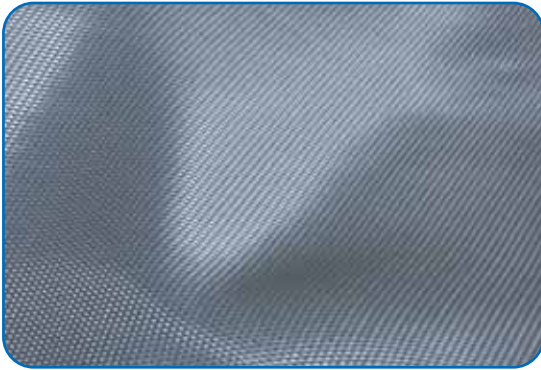
Applications

ACEBag™ can mainly applied for geotechnical and hydraulic engineering fields. In-situ soil or gravel is customarily accepted by ACEBag™ as filling material. Made by ACETex®, offers light-weight and customized size, could be as user-friendly as possible.

Due to the merit, using ACEBag™, as revetment, groyne, breakwater, pipeline support, anti-scouring, underwater cofferdam, is cost effective, time saving and helps vegetation to grow comparing to traditional method.

Product Range

ACETex[®] PET series



ACETex[®] PP series



ACETube[®]



ACEContainer[™]



ACEFormer[™]



ACEBag[™]





Quality Control and Top Service



CE

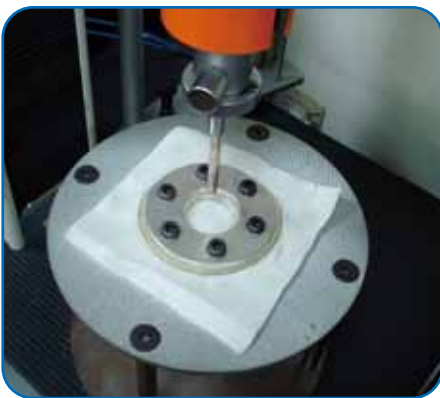


ISO 9001

With ISO 9001 endorsement, intensive quality control process during manufacturing of all our products is practiced by experienced and highly educated QA & QC engineers using well-appointed equipment in our modern ACE laboratories.

ACE is devoted to achieve our high manufacturing quality control to supply first-rate products for our customers. We sample test each production line everyday. Moreover, we cooperate with accredited independent laboratories to prove our quality stability.

Our Research and Development department keeps studying and improving our technique in order to supply the excellent and outstanding ever products. To ensure the best performance of ACETex[®], we have professional engineers to propose the best economical and efficient solutions to satisfy the client's needs. Furthermore, our professional assistance includes design, software analysis, construction consultation, and technical support.





ACE Geosynthetics

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EXCLUSIVE DISTRIBUTOR



Gabions | Geosynthetics | Permaerib | Rockfall Barrier System

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