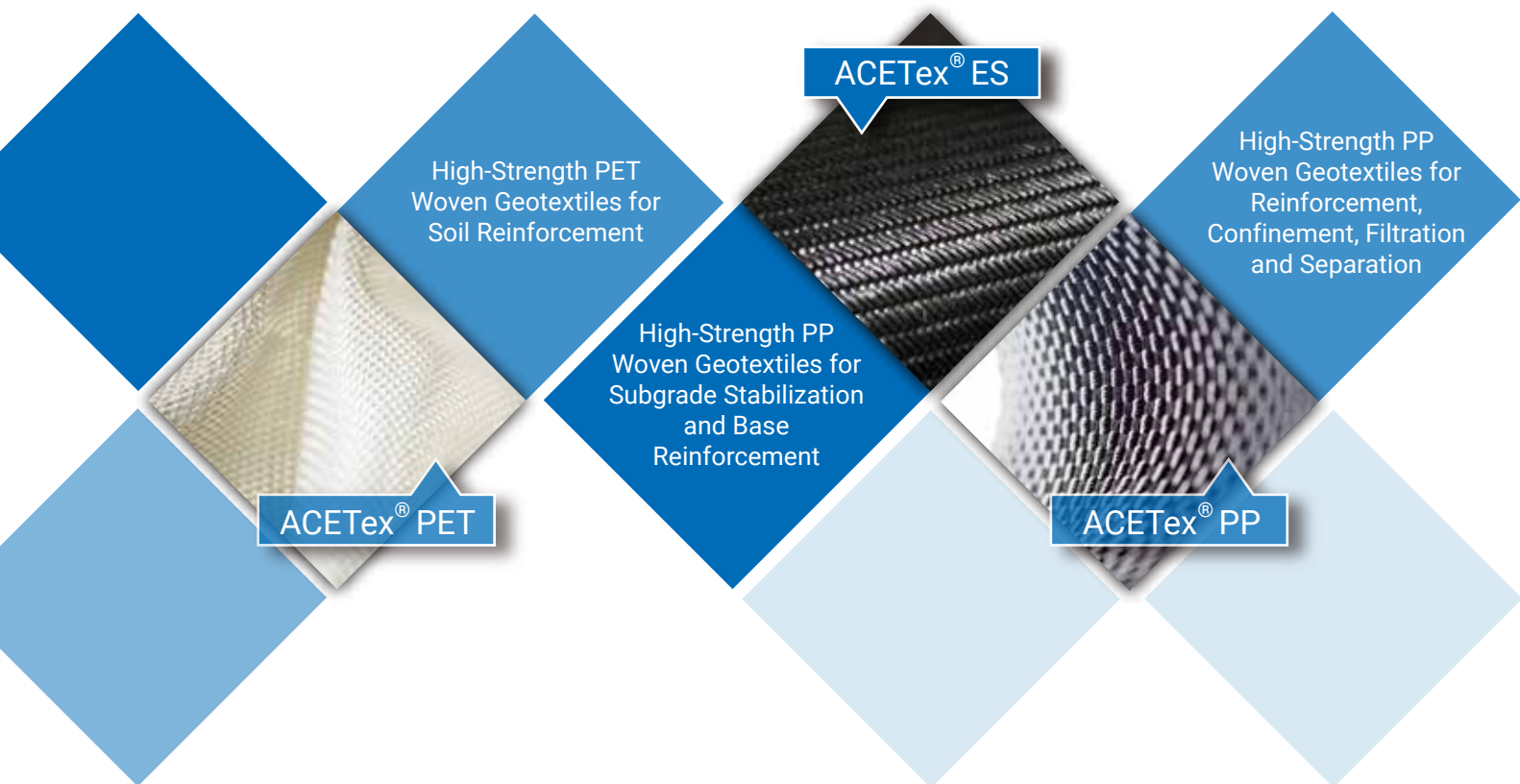


# ACETex<sup>®</sup>

ACETex<sup>®</sup> is the registered trademark of ACE Geosynthetics for all its geotextile products. ACETex<sup>®</sup> is basically woven geotextile made of high tenacity and high molecular weight polyester or polypropylene yarns, to provide a wide range of geotextile with different strength at low elongation. With experience and know-how, ACE Geosynthetic is able to produce extraordinarily high strength woven geotextile for special engineering applications.

The main types of ACETex<sup>®</sup> are ACETex<sup>®</sup> PET, ACETex<sup>®</sup> ES and ACETex<sup>®</sup> PP .



# ACETex<sup>®</sup> PET APPLICATION

ACETex<sup>®</sup> PET can be applied in the following constructions and purposes:

## Ground stabilization

- Airport Runway Reinforcement
- Railway Track Reinforcement
- Pile Foundation

## Reinforced Embankment

- Reinforced Embankment
- Reinforced Abutment

## Reinforced Wall and Slope

- Reinforced Wall
- Reinforced Slope

## Pavement Reinforcement

- Subgrade Stabilization

## Separation

- Sidewalk Paver

## Containment

- Geotextile Bag
- Geotextile Tube



## Real Case

High tensile strength ACETex<sup>®</sup> is applied in soft soil improvement for a high-level roadway upgrade and expansion project. The proposed construction site is a flood plain area, since it is close to a river. ACETex<sup>®</sup> is laid to separate different granular materials for differential settlement prevention, to evenly distribute and transfer load downward for ground stabilization, and to provide some degrees of horizontal drainage to the ground. The time needed for granular material to settle and consolidate is shortened substantially.

# WHY ACETex<sup>®</sup> PET

ACETex<sup>®</sup> PET geotextiles have high tensile strength at very low strain for soil reinforcement applications.

## Key Features:

- Stable woven structure
- Low elongation and high tensile modulus
- Remarkable performance against creep

## Key Benefits:

- Cost and time saving
- Easy and quick installation
- Durable in natural environment
- Improve bearing capacity



# ACETex<sup>®</sup> ES APPLICATION

ACETex<sup>®</sup> ES can be applied in the following constructions and purposes:

## Earthwork Construction

Bridging over Underground Voids and Sinkholes

## Roadway and Railway Construction

Subgrade Stabilization

Base Reinforcement



## Real Case

Low elongation ACETex<sup>®</sup> ES is applied in weak subgrade conditions for a case of highway stabilization. The newly constructed road crosses several swampy areas with poor soil conditions. ACETex<sup>®</sup> and prefabricated vertical drains (PVD) are smoothly installed to provide lateral restraint for stabilize subgrade, and to increase the bearing capacity. Lastly, the entire pavement structure is completed once backfilled to the required altitude. The fresh construction method totally dispenses the large-scale soil replacement or treatment process which immensely reduces material and transportation costs.

# WHY ACETex<sup>®</sup> ES

ACETex<sup>®</sup> ES geotextiles perform exceptionally well in separation, filtration and reinforcement functions altogether to be an ideal solution for subgrade stabilization and base reinforcement.

## Key Features:

- High tensile strength and low elongation
- Excellent performance in separation and filtration functions
- High quality and durability
- Relatively lightweight with high tensile strengths

## Key Benefits:

### Safety

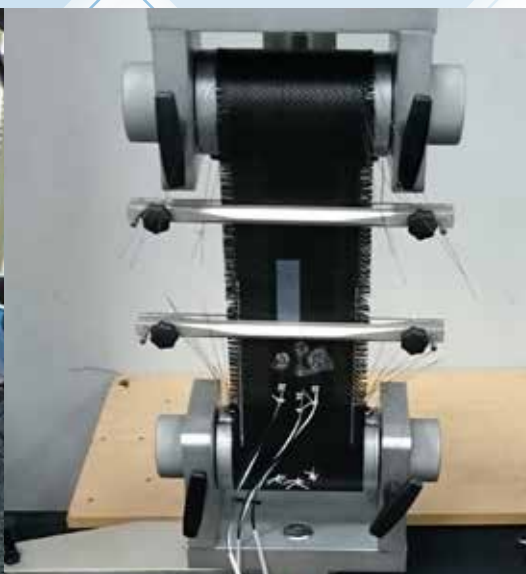
- Reduce rutting
- Reduce inhomogeneous settlement
- Improve traffic ability

### Economical

- Extend road service life
- Reduce required base course materials
- Lower maintenance costs

### Applicability

- Use in heavy rainfall / high water table areas
- Use with some difficult soils
- Allow permeable pavement systems



# ACETex<sup>®</sup> PP APPLICATION

ACETex<sup>®</sup> PP can be applied in the following constructions and purposes:

## Containment

Geotextile Bag  
Geotextile Tube

## Filtration

Geotextile behind Retaining Wall  
Geotextile around Underdrain  
Silt Fence

## Separation

Sidewalk Paver

## Pavement Reinforcement

Subgrade Stabilization

## Ground stabilization

Railway Track Reinforcement



## Real Case

Durable ACETex<sup>®</sup> is processed to enormous containers (ACEContainer<sup>™</sup>) for high polluted sludge dredging and disposal. The settlement of the sludge mixture of oil, silt, drifted sand, and suspended solids at the bottom of the harbor basin pollutes the environment and affects the routine operation of the port and navigation of ships. The dredged sludge is put into ACEContainer<sup>™</sup> fixed on a barge, and is then transported to an appropriate location and dropped into the sea after proper sealing. ACEContainer<sup>™</sup> effectively helps the dredging and disposal work, and controls the spread of the polluted sludge.



# WHY ACETex<sup>®</sup> PP

ACETex<sup>®</sup> PP has excellent performance in different constructions and environmental conditions.

## Key Features:

- Various woven structure
- High permeability and CBR value
- Remarkable resistance against abrasion, UV light and chemical environment
- Relatively light weight with high tensile strength (compare to products with the same strength level)

## Key Benefits:

- Cost and time saving
- Durable in natural environment
- Easy handling and installation

