



ENVIRO PLUS LINE

Geofoam

Description

Geofoam is the use of EPS as light-weight fill for construction on soft ground, for slope stabilization, and retaining wall or abutment backfill. It is also used for roadway and runway subgrade insulation and foundation insulation.

In civil engineering applications, the use of EPS geofoam typically saves both time and money. EPS is unaffected by weather and is environmentally safe. Its service life is comparable to other conventional construction materials retaining its physical properties under a variety of conditions. Working with more traditional materials to solve construction problems, **Geofoam affords unprecedented strength and flexibility.**

Geofoam is typically produced in blocks that can be cut into various shapes and sizes to suit specific projects. It can also be produced in a range of densities to meet varying project needs.

Versatility

Additionally, geofoam products help reduce and absorb the impacts of natural forces, such as gravity and earthquakes, rather than trying to strengthen or stiffen a structure to resist the forces. By working with, rather than against, these forces, geofoam gives engineers more flexible solutions to construction challenges. In addition, its thermal insulation properties help combat frost-heave problems.

Uses of Geofoam

Geofoam has been utilized in road and airfield pavements and railway track systems, beneath refrigerated storage buildings, arenas and storage tanks to prevent ground freezing and heaving, and in below-ground building segments to reduce seasonal heating and cooling requirements.

Call your Tri State Foam representative at 1-800-277-0967 for more information about the benefits of the company's EPS products.



E+LINE

Products Engineered
for Today's
Construction Industry

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Road Embankments

Geotechnical engineers have long recognized the usefulness of lightweight fill to reduce load strain. A major advantage of using geofoam as fill material in embankments is that it is up to 50 times less massive than other lightweight fills, thus providing:

- Maximum available right-of-way
- Faster construction schedules
- Lower traffic impact
- Comparatively clean construction near waterways
- Reduced labor
- Minimal future maintenance

Retaining Wall or Abutment Backfill

Placing EPS geofoam behind retaining structures and below-grade walls reduces lateral pressure, lowers settlements, improves waterproofing and provides better insulation. The low density and relatively high compressibility of geofoam also limit horizontal forces against retaining structures during earthquakes.

Slope Stabilization

Because the density of EPS geofoam is 50 to 100 times lower than soils, geofoam is highly effective in improving the stability and safety of slope construction by minimizing the potential of failure surfaces between driving blocks and resisting blocks in a slope.

Pavement Insulation

EPS geofoam is used successfully as highway and airport pavement sub-grade insulation to reduce sub-grade stress and deformation as well as to protect against frost heaving.

Frost Protection for Shallow Foundations

In cold climate regions, building foundations are required to extend below depths of expected frost penetration. This typically requires housing construction with basements or crawl space below floor grade. By using EPS geofoam, homes can be built in cold climates with slab-on-grade support. Frost protected shallow foundations significantly reduce construction costs as well as energy costs.

Tri-State Foam's EPS Geofoam Is an Ideal Choice

Tri State Foam offers a diverse line of EPS geofoam products that are designed specifically for construction engineering applications. Our EPS products are environmentally friendly and contribute toward LEED® credit requirements. Call today for more information.



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