

TerraThane™



Trench Breakers, Pads, and Pillows for Pipeline in Challenging Conditions

PROBLEM

> The contractor needed pipeline pads and pillows for 1,400 feet of pipeline on a 58-degree hillside in rural West Virginia in challenging weather conditions.



A recent pipeline job at Dominion Resource's extraction/fractionation plant in Pine Grove, WV presented some pretty hairy challenges. The Dominion Transmission plant processes and stores natural gas liquids (NGLs): propane, normal butane, isobutane, and natural gasoline. They extract, fractionate, store, transport and market to various end-user markets including propane retailers, refineries, petrochemical facilities, and aerosol companies.

The first challenge was laying 1,400 feet of pipeline on a 58-degree hillside where the trucks, excavators, and other equipment had to be winched up the slope and held in place by cables attached to heavy equipment. The second challenge was the constant rain, so severe erosion of the freshly-turned earth was a major concern.

SOLUTION

> The Texas applicator chose to use TerraThane™ 24-series geotechnical foam for the job, winched his truck up the side of the mountain and secured it to heavy equipment.



Chad Corbin's company, All Seasons Foam and Coatings Services, Sanger, TX, was chosen to create pipeline pillows and trench breakers for the project. "We took one look at it and, when most companies might have thrown up their hands or declined the job, we felt right at home because we use TerraThane™," says Corbin.

RESULTS

> TerraThane™ requires much less time to apply, saving time and money on any job. Plus, TerraThane™ adheres to the soil and ground around the pipeline helping control erosion, and it lasts much longer than legacy products like sandbags.



Corbin says the TerraThane™ worked perfectly. "They laid 1,400 feet of pipe on the 58-degree slope, we winched our spray rig up the side of the mountain, and sprayed the trench. TerraThane™ did the job on the slope and in the inclement weather, taking much less time than other legacy products to cure in place.

According to Corbin, "TerraThane™ is a great product. Polyurethane foam is far superior to sand breakers. Water eats through the sandbag breakers and the sand escapes and erodes over time. Polyurethane foam breakers bond with the earth, and water doesn't have an effect on them. They're easier to apply and they last."

Learn more at www.TerraThane.com
or by calling 1-866-NSULATE (1-866-678-5283)

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TerraThane™ 24 series, geotechnical polyurethane systems are two-component, closed-cell, rigid polyurethane foam designed for constructing polyurethane foam trench breakers, pads and pillows. TerraThane™ 24-023 is a 2.0 lb/cu ft to 2.2 lb/cu ft system.

- Available in high altitude formulations
- Excellent dimensional stability
- Formulated for fast and easy application
- Closed cell
- Scorch free and split free processing
- Environmentally friendly
- Polyurethane foam rigs typically operated by two-man crews
- Machine processed for consistent material and performance
- Cost saving compared to typical sandbag construction
- Tested per applicable ASTM test methods

TYPICAL PHYSICAL PROPERTY RANGES OF TERRATHANE™ 24 SERIES SYSTEMS

Densities: 2.0 lb/ft³ to 2.2 lb/ft³

Compression Strength: 27 psi (free rise, ASTM D1621) TerraThane™ systems reach 90% of compression strength within approximately 15 minutes of application.

TerraThane™ polyurethane foams are tested to ASTM test methods including, but not limited to, D 1622, D 1623, D 2127, C518, D 2842, Closed Cell Content NCFI TM300 and D 2126. TerraThane™ polyurethane systems have excellent resistance to solvents. Maximum service temperatures range from 180° F (82.2° C) to 200° F (93.3° C).

The above values are average values obtained from laboratory experiments and should serve only as a guide. Consult NCFI for detailed technical data sheets and MSDS sheets for further details.

NCFI
POLYURETHANES

A whole new comfort level, for you and for the world.