Quality from the Ground Up™

C O L L O I D  E N V I R O N M E N T A L  T E C H N O L O G I E S  C O M P A N Y

In order to meet the challenges of today’s construction techniques, CETCO continues to evolve. With our first waterproofing patent in 1942, we’ve looked for innovative ways to bring value and security to our customers. Decades later, we remain committed to advancing the science with new solutions and the core belief that quality must come first.

CETCO supports its products and services with HydroShield — the industry’s most extensive Quality Assurance Program. It is indicative of the confidence we have in our products as well as the services and skills of our industry partners. It features design / architectural support, site specific AutoCAD details, material installation by experienced approved applicators, third party independent inspection as well as the financial security of the industry’s only NO-DOLLAR-LIMIT warranty — all from a single source.

Using a qualified single source for your commercial waterproofing requirements means more — more control, more quality, more service, and the knowledge that your investment is secure with one phone call. Achieve more with building envelope solutions from CETCO.

Superior Performance

APC Technology™

Active Membrane Barrier Protection

The predominate problem with conventional thermoplastic waterproofing membranes is that since they are installed loose laid they require an expensive grid anchoring system to isolate water infiltration due to an installation defect or puncture. With CoreFlex, if the thermoplastic membrane is punctured, its Active Polymer Core (APC) activates with the water to seal the breach thus preventing water infiltration into the structure. Additionally, the APC geotextile layer provides a protective cushion to decrease the potential of the thermoplastic membrane to be punctured from irregular substrate surface texture.

Elvaloy® KEE Solves the Plasticizer Migration Issue

As for performance, our Elvaloy-based compound sets the industry standard for every level of resistance – hydrostatic, oil, chemical, salt, and other contaminants. With its high molecular weight, non-migrating plasticizer, the membrane will not crack, cure, or shrink thus providing the longest lasting protection. Membranes based on Elvaloy-KEE are engineered to resist ground water contaminants typical of below-grade conditions. Plus the membrane has an extremely low water vapor transmission that qualifies it as a Class "A" Vapor Retarder per ASTM E1745.

High Performance Seam Assembly

Thermoplastic Weld + Active APC Barrier Protection

Conventional thermoplastic membranes rely solely on welds to prevent water intrusion at the overlap seams. With CoreFlex, each membrane overlap seam utilizes both a conventional weld and an overlap assembly of the APC Technology to assure water-tightness. This combination of passive and active barrier technologies provides enhanced seam performance and eliminates the reliance of seam integrity strictly on installation labor.

Elvaloy-KEE Molecule

WELDED MEMBRANE

OVERLAP ASSEMBLY

4" min. (100mm)

KEE Membrane

Top Coat

Weft Inserted Knit Polyester Reinforcement Fabric

KEE Membrane

Bottom Coat

APC Layer

HydroShield" Quality from the Ground Up™
**Applications**

From tunnels to basements to greenroofs, there isn’t a better waterproofing membrane than CoreFlex. Whether your project is new construction or a plaza deck remediation project, this versatile membrane system will provide the water barrier performance you expect.

CoreFlex is available in two thermoplastic membrane thicknesses, 45 mil and 60-mil; both providing superior durability and puncture resistance. Both are manufactured with the APC Technology layer integrally bonded to the back side of the thermoplastic membrane, as well as both feature the reinforcement fabric completely encapsulated between equal thicknesses of the thermoplastic compound to create a monolithic membrane that doesn’t delaminate. This durable membrane construction provides benefits both during installation and in service.

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**Advantages**

CoreFlex Offers Many Performance Advantages

**APC Technology for Active Sealing – Active Polymer Core**

Technology activates and seals water ingress through the thermoplastic membrane automatically and reliably. Unlike conventional thermoplastic waterproofing membranes, expansive geotechnical remediation systems are not required to maintain or control water infiltration.

**Elvaloy-KEE Based Membrane – CoreFlex’s integrated polymer.**

Elvaloy-KEE is an extremely durable, heat resistant, and temperature stable thermoplastic. This material provides superior barrier properties and durability. The solid phase Elvaloy polymer will not migrate to the surface like low molecular weight liquid plasticizers commonly used in conventional thermoplastic waterproofing membranes.

**CoreFlex Relies on Physical Attributes and Performance Over Time.**

CoreFlex’s thick reinforcement fabric creates an internal barrier to puncture and physical damage.

**Monolithic Membrane – Our coating process completely embeds the reinforcement and creates a monolithic membrane that won’t delaminate.**

This membrane construction also inhibits water-following along the reinforcement, thereby eliminating the need for caulking of exposed edges.

**Welded Seams – Field seaming is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment. CoreFlex’s seams are fully based, watertight and stronger than the original membrane.**

The welded seams combined with superior membrane reinforcement result in a bursting strength in excess of 700psi.

**Extremely Low Permeability – CoreFlex has an extremely low water vapor transmission rate that qualifies it as a Class A Vapor Retarder per ASTM E1174.**

**Excellent Hydrostatic Resistance – CoreFlex’s integrated polymer, Elvaloy-KEE, exhibits superior hydrostatic resistance.**

CoreFlex has been successfully tested to resist 231 psi (1000m) of hydraulic pressure per ASTM D5385.

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**Advanced Technology**

CoreFlex sets the industry standard for waterproofing strength, durability and performance. The CoreFlex Composite consists of a reinforced thermoplastic membrane integrally bonded to a proprietary Active Polymer Core (APC) Technology layer. The two barrier materials combine to provide superior waterproofing protection unmatched by any other product.


This process not only embeds existing, it also provides maximum peel strength – benefits that cannot be achieved by products that rely on “white through” adhesion between coats.

**With its integrated APC Technology, CoreFlex does not have to rely on an expensive grid system to maintain or control water ingress if the thermoplastic membrane is punctured or breached. Simply the APC layer activates at the water leak and seals the breached membrane. Thus, the problem becomes part of the solution – automatically and reliably.**

CoreFlex’s thermoplastic membrane technology exhibits superior puncture resistance and dimensional stability, consistently withstands thermal stresses, while with the solid phase Elvaloy KEE retains the membrane’s physical attributes and performance over time.

If that isn’t enough, CoreFlex’s integrated polymer, Elvaloy-KEE Based Membrane, exhibits superior hydrostatic resistance. CoreFlex’s seams are fully based, watertight and stronger than the original membrane. The welded seams combined with superior membrane reinforcement result in a bursting strength in excess of 700psi.

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**CoreFlex Delivers Superior Protection**

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**Tunnels**

- CoreFlex is ideal for applications, as well as for remediation projects that may only be accessible through the thermoplastic membrane – automatically and reliably. Unlike conventional thermoplastic waterproofing membranes, expansive geotechnical remediation systems are not required to maintain or control water infiltration.

**Elvaloy-KEE Based Membrane – CoreFlex’s integrated polymer.**

Elvaloy-KEE is an extremely durable, heat resistant, and temperature stable thermoplastic. This material provides superior barrier properties and durability. The solid phase Elvaloy polymer will not migrate to the surface like low molecular weight liquid plasticizers commonly used in conventional thermoplastic waterproofing membranes.

**CoreFlex Relies on Physical Attributes and Performance Over Time.**

CoreFlex’s thick reinforcement fabric creates an internal barrier to puncture and physical damage.

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**CoreFlex Delivers Superior Protection**

With its integrated APC Technology, CoreFlex does not have to rely on an expensive grid system to maintain or control water ingress if the thermoplastic membrane is punctured or breached. Simply the APC layer activates at the water leak and seals the breached membrane. Thus, the problem becomes part of the solution – automatically and reliably. 

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Active Membrane Barrier Protection

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Elvaloy® KEE
Solves the Plasticizer Migration Issue

As for performance, our Elvaloy-based compound sets the industry standard for every level of resistance — hydrostatic, oil, chemical, salt, and other contaminants. With its high molecular weight, non-migrating plasticizer, the membrane will not crack, cure, or shrink thus providing the longest lasting protection. Membranes based on Elvaloy-KEE are engineered to resist ground water contaminants typical of below-grade conditions. Plus the membrane has an extremely low water vapor transmission that qualifies it as a Class “A” Vapor Retarder per ASTM E1745.

High Performance Seam Assembly

Thermoplastic Weld + Active APC Barrier Protection

Conventional thermoplastic membranes rely solely on welds to prevent water intrusion at the overlap seams. With CoreFlex, each membrane overlap seam utilizes both a conventional weld and an overlap assembly of the APC Technology to ensure water-tightness. This combination of passive and active barrier technologies provides enhanced seam performance and eliminates the reliance of seam integrity strictly on installation labor.
CETCO has been designing and installing waterproofing systems since 1963. With more than 45 years of experience, CETCO has earned its reputation as a global leader and innovator in the waterproofing industry. Our waterproofing systems are specifically designed to meet the highest standards in quality and reliability, with unparalleled water-bARRIER performance. Our record of proven performance is reconfirmed daily and reliability, with unparalleled water-barrier protection.

CoreFlex sets the industry standard for waterproofing membrane strength, durability and performance. The CoreFlex composite consists of a reinforced thermoplastic membrane integrated to a proprietary Active Polymer Core (APC) Technology layer. The two barrier materials complement each other and provide superior waterproofing protection unmatched by any other product.

With its integrated APC Technology, CoreFlex does not have to rely on an expensive grid system to maintain or control water ingress if the thermoplastic membrane is punctured. Simply the APC layer activates at the water leak and seals the breached membrane. Thus, the problem becomes part of the solution - automatically and reliably.

CoreFlex’s thermoplastic membrane technology activates superior puncture resistance and dimensional stability. The reinforced structure creates the same properties and durability. The solid phase Elvaloy polymer will not migrate to the surface like low molecular weight liquid plasticizers. CoreFlex’s seams are fully fused, watertight and reliable. Thus, CoreFlex retains its physical attributes and performance over time.

Welded seams – Field welding is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment. CoreFlex’s seams are fully fused, watertight and stronger than the original membrane. The welded seams combined with superior membrane reinforcement result in a bursting strength in excess of 700 psi.

Superior Reinforcement – Manufactured with knit polyester fabric, CoreFlex exhibits superior tensile and tear strength over fiberglass and lighter weight polyester reinforced membranes. The industries heaviest reinforcement fabric creates an internal barrier to puncture and physical damage.

Membrane Reinforcement - Our coating process completely embeds the reinforcement and creates a monolithic membrane that won’t delaminate. This membrane construction also inhibits water-wetting along the reinforcement, thereby eliminating the need for caulking of exposed edges.

Automated Field Welding

CoreFlex, the Next Generation in Waterproofing Protection

Architects, contractors, and building owners know our commitment to performance and reliability starts with quality products. Our proven products are developed and designed with the knowledge and experience required for today’s demanding construction industry. CETCO has now combined state-of-the-art technology with our most advanced waterproofing system available – CoreFlex. Once again, through innovation CETCO is defining the performance of waterproofing.

Applications

From tunnels to foundations to greenroofs, there isn’t a better waterproofing membrane than CoreFlex. Whether your project is new construction or a plaza deck remediation project, this versatile membrane system will provide the water barrier performance you expect.

CoreFlex is available in two thermoplastic membrane thicknesses, 45 mil and 60 mil, both providing superior durability and puncture resistance. Both are manufactured with the APC Technology layer integrally bonded to the back side of the thermoplastic membrane, as well as both feature the reinforcement fabric completely encapsulated between equal thicknesses of the thermoplastic compound to create a monolithic membrane that doesn’t delaminate. This durable membrane construction provides benefits both during installation and in service.

CoreFlex Offers Many Performance Advantages

Advanced Technology

CoreFlex delivers superior protection.

Advantages

AFC Technology for Active Sealing – Active Polymer Core Technology activates and seals water ingress through the membrane automatically and reliably. Unlike conventional thermoplastic waterproofing membranes, expensive grid containment systems are not required to maintain or control water infiltration.

Elvaloy-KEE Based Membrane – CoreFlex’s integrated polymer. Elvaloy-KEE is an enhanced thermoplastic membrane properties and durability. The solid phase Elvaloy polymer will not migrate to the surface like low molecular weight liquid plasticizers, used in conventional thermoplastic waterproofing membranes. Thus, CoreFlex retains its physical attributes and performance over time.

Superior Reinforcement - Manufactured with knit polyester fabric, CoreFlex exhibits superior tensile and tear strength over fiberglass and lighter weight polyester reinforced membranes. The industries heaviest reinforcement fabric creates an internal barrier to puncture and physical damage.

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Welded Seams - Field welding is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment. CoreFlex’s seams are fully fused, watertight and stronger than the original membrane. The welded seams combined with superior membrane reinforcement result in a bursting strength in excess of 700 psi.

Extremely Low Permeability – CoreFlex has an extremely low water vapor transmission rate that qualifies it as a Class A Vapor Retarder per ASTM E1174.

Chemical Resistance - The Elvaloy-KEE based thermoplastic membrane provides superior resistance to a broad array of chemicals typically found in below-grade soil conditions.

Excellent Hydrostatic Resistance – CoreFlex has been successfully tested to resist 231 psi (1500 psi of hydrostatic pressure per ASTM D5535).

CoreFlex Delivers Superior Protection

Typical applications include tunnels, tunnels, under slab, plaza decks, greenroofs, property line, foundation walls, and property line zero-fill construction, such as water pile and legging, and property line zero-fill construction, such as water pile and legging.

For a waterproofing system tougher than the elements, specify CoreFlex.
With more than 45 years of experience, CETCO has earned its reputation as a global leader and innovator in the waterproofing industry. Our waterproofing systems are widely recognized for the highest standards in quality and reliability, with unparalleled waterproof barrier protection. Our record of proven performance is reconfirmed daily by products that rely on “strike through” adhesion between materials combined to provide superior waterproofing. CETCO in the Next Generation in Waterproofing Protection. Advanced Technology CETCO sets the industry standard for waterproofing membrane strength, durability and performance. The CoreFlex composite consists of a reinforced thermoplastic membrane integrally bonded to a proprietary Active Polymer Core (APC) Technology layer. The two barrier materials combined provide benefits both during installation and in service. The thermoplastic membrane features a polyester knit reinforcement fabric coated with a proprietary ethylene polymer interlayer compound, utilizing Elvaloy® KEE as the principle polymer modifier. A proprietary adhesive coating encapsulates the woven fabric, promoting a molecular bond between the fabric and the thermoplastic layers. This process not only embeds the fabric, it also provides maximum peel strength – benefits that cannot be achieved by products that rely on “white through” adhesion between coats.

Applications

From tunnels to foundations to greenroofs, there isn’t a better waterproofing membrane than CoreFlex. Whether your project is new construction or a plaza deck remediation project, this versatile membrane system will provide the water barrier performance you expect. CoreFlex is available in two thermoplastic membrane thicknesses, 45 mil and 60 mil, both providing superior durability and puncture resistance. Both are manufactured with the APC Technology layer integrally bonded to the back side of the thermoplastic membrane, as well as both feature the reinforcement fabric completely encapsulated between equal thicknesses of the thermoplastic compound to create a monolithic membrane that doesn’t delaminate. This durable membrane construction provides benefits both during installation and in service.

Advantages

CoreFlex Offers Many Performance Advantages

APC Technology for Active Sealing – Active Polymer Core Technology activates and seals water breaches through the thermoplastic membrane automatically and reliably. Unlike conventional thermoplastic waterproofing membranes, expensive geotextiles or systems are not required to maintain or control water infiltration. Elvaloy-KEE Based Membrane – CoreFlex’s integrated polyethylene-based Elvaloy-KEE thermoplastic membrane properties and durability. The solid phase Elvaloy polymer will not migrate to the surface like low molecular weight liquid plasticizers used in conventional thermoplastic waterproofing membranes. Thus, CoreFlex retains its physical attributes and performance over time. Superior Reinforcement – Manufactured with knit polyester fabric, CoreFlex exhibits superior tensile and tear strengths over fiberglass and lighter weight polyester reinforced membranes. The industries leading reinforcement fabric creates an internal barrier to puncture and physical damage. Membrane Thickness – Our coating process completely embeds the reinforcement and creates a monolithic membrane that won’t delaminate. This membrane construction also inhibits water wicking along the reinforcement, thereby eliminating the need for caulking of exposed edges. Welded Seams – Field seaming is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment. CoreFlex’s seams are fully based, watertight and stronger than the original membrane. The welded seams combined with superior membrane reinforcement result in a bursting strength in excess of 700psig.

Extreme Low Permeability – CoreFlex has an extremely low water vapor transmission rate that qualifies it as a Class A Vapor Retarder per ASTM E1174. Chemical Resistance – The Elvaloy-KEE based thermoplastic membrane provides superior resistance to a broad array of chemicals typically found in below-ground soil conditions. Excellent Hydrostatic Resistance – CoreFlex has been successfully tested to resist 231 feet (100 m) of hydrostatic pressure per ASTM D5325.

CoreFlex Delivers Superior Protection

Tunneled Gritstreams

Typical applications include tunnels, under slabs, parking decks, plaza decks, property line zero-tol construction, such as water pipe and lagging. Delivers hydrostatic protection that may only be water. CETCO can offer detailed solutions to the architect, contractor and owner to protect the structure from water ingress. For a waterproofing system tougher than the elements, specify Coreflex.
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WELDED MEMBRANE OVERLAP ASSEMBLY

KEE Membrane

Top Coat

Weft Inserted Knit Polyester Reinforcement Fabric

KEE Membrane

Bottom Coat

Thermoplastic Weld

Upholstery Knit Polyester Reinforcement Fabric

KEE Membrane

Weld

APC Layer