

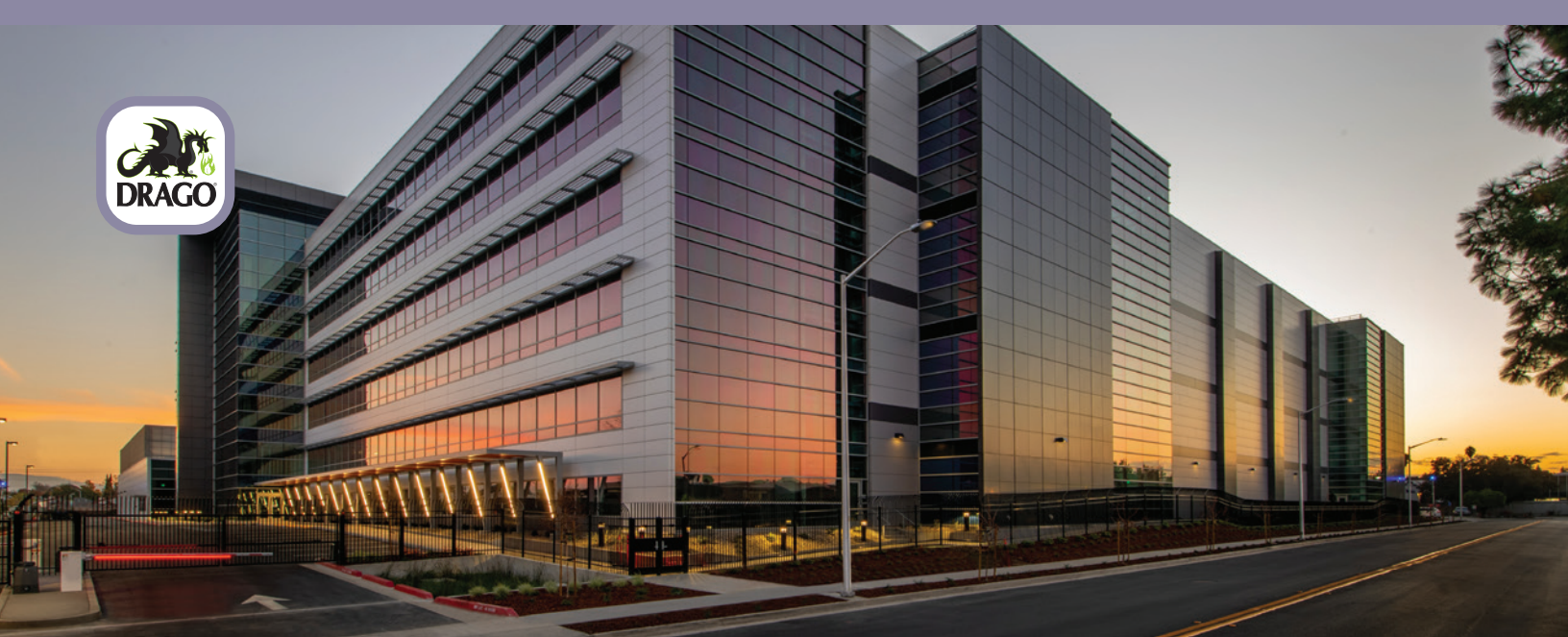
DRAGO®

A PROVEN BARRIER AGAINST VOCs AND MOISTURE INTRUSION



When building on contaminated sites, soil gases and VOCs can put long-term indoor air quality at considerable risk. Drago helps address these challenging conditions with unsurpassed **below-slab protection** designed to block vapor intrusion from VOCs, methane, radon, and water vapor. Whether the project demands high-performance defense or a cost-effective solution, Drago gives owners, developers, and engineers a way to move forward with confidence.





What is Drago® Wrap?

Born from a need to address the challenges of vapor intrusion in contaminated and brownfield sites, Drago Wrap Vapor/Gas Barriers and Retarders are engineered to offer a superior, all-in-one solution that simplifies and enhances the protection of buildings from harmful chemicals and moisture vapor. With varying contamination levels on project sites, builders have multiple product solutions to choose from, including Drago Wrap Vapor Intrusion Barrier, Drago Soil Gas Barrier, and Drago Soil Gas Retarder, to combat specific project conditions. Drago Wrap delivers durability and long-lasting performance, while Drago accessories, designed as part of the Drago system, support an efficient installation built to last.

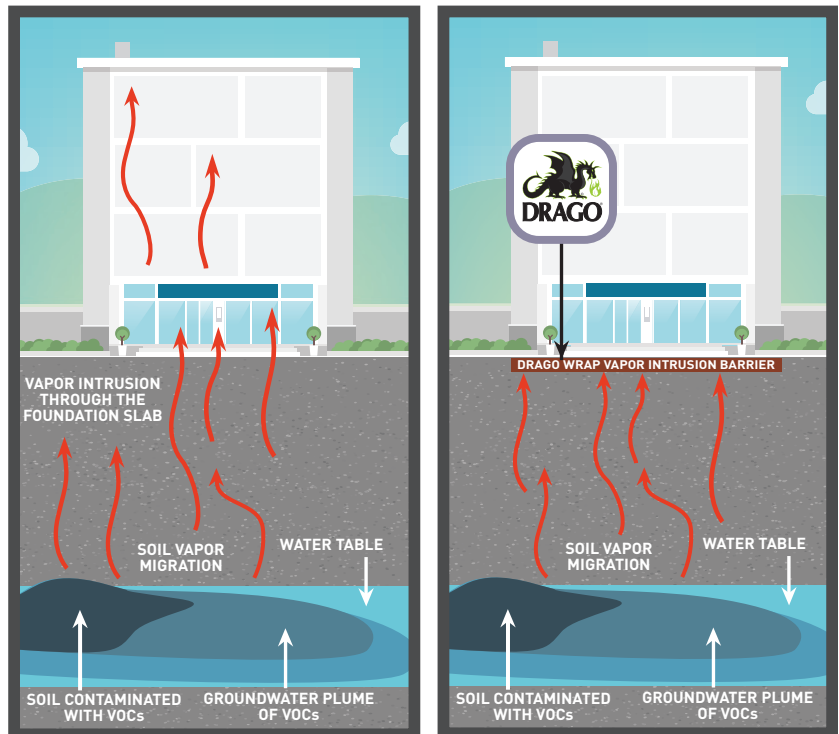
The Hidden Risk Beneath the Surface

On contaminated sites and brownfields, the threat isn't always visible. Beyond contact with polluted soil or groundwater, chemical vapors can migrate into buildings through a process called vapor intrusion. Harmful vapors can rise from the ground and enter indoor spaces leading to:

- Short-term effects like headaches or respiratory irritation
- Long-term health risks, including chronic illness or cancer
- In some cases, fire or explosion hazards

These vapors move through the foundation, putting workers, residents, and future occupants at risk.

[Source: EPA]





Why can I trust the Drago brand?

When chlorinated solvents, hydrocarbons, and moisture vapor migrate from contaminated soil into buildings, they create serious health and safety concerns. Builders and developers need a reliable, field-proven way to address these risks—especially on contaminated sites. Drago Wrap is engineered to help stop these invisible threats before they reach the building envelope. Vapor-forming chemicals don't need a crack or opening to enter the building envelope. Drago Wrap's advanced barrier technology is not only cost-effective, but easy to install, providing peace of mind that Drago is helping to safeguard your project against the harmful effects of vapor intrusion.

Benefits of the Drago Wrap System

FEATURES	BENEFITS
Independent, university testing	Efficacy testing for hydrocarbons, chlorinated solvents, and other soil gases (radon, methane)
Made from game-changing resin technology and provides high performance and longevity	Allows Developers, Owners, and Engineers to redevelop brownfield sites and create a healthy built environment
Installation methodology derived from extensive lab and field work based on the principles found in ASTM E1643 and finally validated through pressure stress testing of simulated installations	Fully intact, dependable installation guidance
20-mil, multi-layer material	Exceptional durability as a result of robust physical properties
14 ft wide rolls	Minimize seams
ASTM E1745 compliant	Designed to be installed below concrete slabs in commercial, residential, and industrial applications

Extensive testing

TESTED – PROVEN EFFECTIVENESS

Extensive, independent testing proved **Drago Wrap's** effectiveness in attenuating hydrocarbons and chlorinated solvents. For more information on our independent testing, please contact Stego's Technical Department or visit our website at stegoindustries.com.



THE DRAGO WRAP ADVANTAGE



Healthier Building

Improved indoor air quality (IAQ) by helping reduce the migration of soil contaminants and the potential for moisture-induced mold and mildew growth.



Methane and VOC Protection

Engineered to resist a broad range of contaminants, including hydrocarbons and chlorinated solvents, Drago Wrap helps to safeguard the structure and its occupants from harmful soil gas intrusion.



Radon Gas Protection

A high-performance soil-gas retarder component of an effective radon mitigation system can help ensure safer indoor air concentrations within the home or building.



Energy Efficiency

Less available moisture for the HVAC system to contend with contributes to a building's overall sustainability goals.



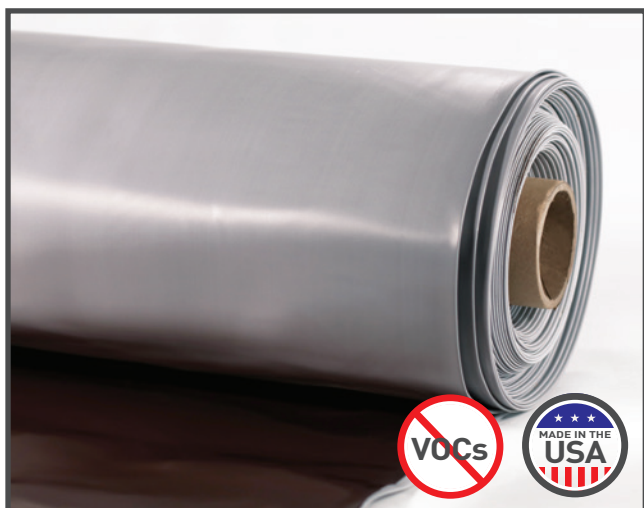
Peace of Mind

Durable, engineered performance beneath the building with a first-of-its-kind **Life of the Building™ Warranty**.

Warranty available online at stegoindustries.com/legal



DRAGO WRAP VAPOR INTRUSION BARRIER



Drago gives builders and developers a trusted solution to help control vapor intrusion from chlorinated solvents, hydrocarbons, and moisture.

How to Buy

Drago is available to buy through a local distributor.

[Find a Distributor](#)

Drago® Wrap Vapor Intrusion Barrier

HIGH-PERFORMANCE PROTECTION AGAINST
VOCs AND MOISTURE VAPOR

Drago Wrap Vapor Intrusion Barrier is specifically engineered to help resist the transmission of chlorinated solvents, hydrocarbons, and moisture vapor. Through patented and trade-secret processes, Drago Wrap combines uniquely designed barrier materials with the strength and flexibility of high-performance polyolefin film—forming a reliable, easy-to-install barrier under the foundation.

Thickness: 20-mil, multi-layer material

Roll Size: 14' x 105'

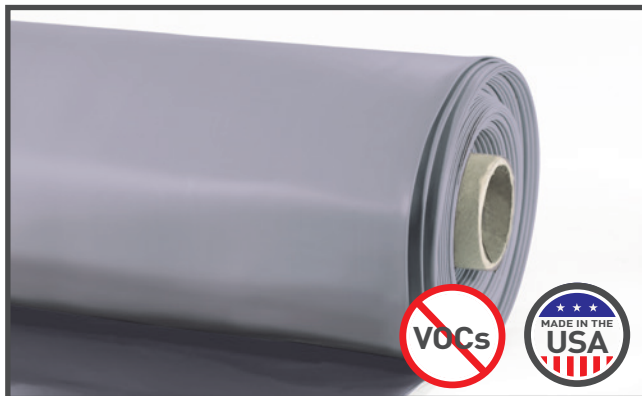
Dimensions: 1,470 ft²

Weight: 150 lb

- Vapor Intrusion Barrier
- Independent university efficacy testing
- Unsurpassed permeation coefficients
- Life of the Building™ Warranty
- Home Innovation NGBS Green Certified® for Resource Efficiency, Indoor Environmental Quality, and Lot Design, Preparation, and Development
- No VOCs
- Made in the USA



DRAGO WRAP SOIL GAS BARRIERS AND RETARDERS



Drago® Wrap Soil Gas Barrier

Provides value and protection in the control of soil gases and offers superior protection beyond a traditional below-slab vapor barrier against water vapor diffusion.

Thickness: 20-mil, multi-layer material

Roll Sizes: 14' x 105'

Dimensions: 1,470 ft²

Weight: 150 lb

- Extremely low permeability to help prevent soil gas and moisture transmission
- Made from game-changing resin technology that provides high performance and longevity
- Can be used in commercial, residential, and industrial applications
- Life of the Building™ Warranty
- Home Innovation NGBS Green Certified® for Resource Efficiency, Indoor Environmental Quality, and Lot Design, Preparation, and Development
- No VOCs
- Made in the USA



Drago® Wrap Soil Gas Retarder

A cost-effective soil gas retarder used as a preemptive solution for contaminated sites with trace amounts of volatile organic compounds (VOCs).

Thickness: 20-mil, multi-layer material

Roll Sizes: 14' x 105'

Dimensions: 1,470 ft²

Weight: 150 lb

- Helps defend against soil gases
- Made from resin technology that provides high performance and longevity
- Can be used in commercial, residential, and industrial applications
- Life of the Building™ Warranty
- Home Innovation NGBS Green Certified® for Resource Efficiency, Indoor Environmental Quality, and Lot Design, Preparation, and Development
- No VOCs
- Made in the USA

Discover your specific project needs at: stegoindustries.com/drago-wrap



ACCESSORIES Complete Protection with Drago Accessories.



DragoSeal® Tape

A multi-purpose tape designed for sealing, seaming, splicing, and patching, and is ideal for sealing Drago Wrap seams.

Roll Sizes: 4" x 50'

- Exceptional initial tack and long-term adhesion
- Extremely low water vapor permeance
- Made in the USA with US and global materials



DragoTack® Tape

A solvent-resistant, double-sided adhesive strip used to bond and seal Drago Wrap to concrete, masonry, wood, metal, and other surfaces.

Roll Sizes: 2" x 50'

- Exceptional adhesion to an array of surfaces
- Highly conformable
- Solvent resistant
- Made in the USA with US and global materials



ACCESSORIES Complete Protection with Drago Accessories.



Drago® Mastic Spray Grade

Used on seams in Drago Wrap as needed to create a monolithic membrane or to seal terminating edges of Drago Wrap to existing foundation constructions.

Size: 55-gallon drum

5-gallon pail and 275 gallon tote are available upon request.

- Water-based, polymer-modified asphaltic emulsion
- Solvent resistant
- Made in the USA



Drago® Mastic

Used for sealing utility, pipe penetrations, and sealing terminating edges to create a quality installation that greatly resists the ingress of moisture and other gases.

Size: 5-gallon pail

- Water-based, trowel-grade asphaltic emulsion
- Solvent resistant
- Made in the USA



Specifically engineered for easy and efficient installation.



Drago® Sealant

Ideal for efficiently and effectively sealing multiple pipe penetrations in close proximity.

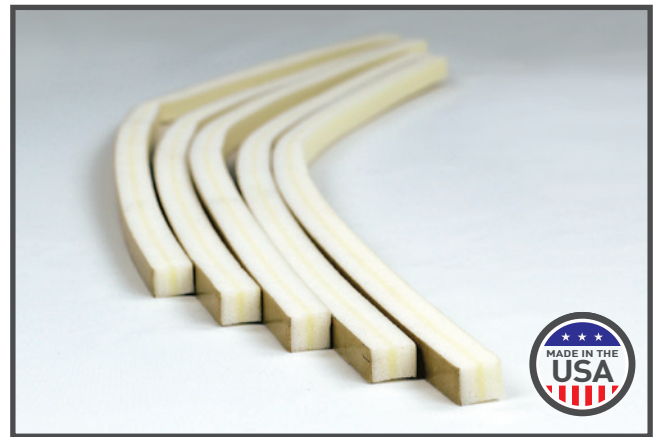
Coverage: 96 ft² @ 60-mils/kit

4 Gallon Kit

**Size: Two 1-gallon cans of Part A (Resin) and
Two 1-gallon cans of Part B (Hardener)**

Water Vapor Permeance: 0.015 @ 60 mils

- Self-leveling, 100% solids
- VOC Content: 0 g/L
- Solvent resistant
- Excellent adhesion
- Made in the USA with US and global materials



Drago® Sealant Form

A flexible, closed-cell polyethylene foam with an acrylic adhesive, designed to be used in conjunction with Drago Sealant.

Size: 1/2" x 1/2" x 24"

- Highly conformable
- Easy to trim to desired length allowing for easy installation
- Excellent adhesion to Drago Wrap
- Made in the USA



Don't Take Our Word For It. Hear What Our Customers Say.

Nothing makes us happier than exceeding our customers' expectations!

PROFESSIONAL REVIEW

"I really appreciated the attentiveness and care. We got everything we needed: calcs, testing information, the newest products, pre-construction, and installation support."

Todd Leon
DIRECTOR OF DEVELOPMENT, CADA



Drago Wrap and accessories are engineered for efficient installation, helping you stay on schedule and meet project requirements. Our detailed step-by-step installation instructions provide the guidance you need to complete the job with confidence.



Access installation guides at stegoindustries.com/resources

RESOURCES

Check out our blog for more education on vapor intrusion: stegoindustries.com/blog



HOW THE DIFFUSION OF CHLORINATED SOLVENTS AND VOCs IMPACT YOUR



HOW TO PREPARE FOR A VAPOR INTRUSION MITIGATION SYSTEM



TOP 5 ECONOMIC BENEFITS OF BROWNFIELD REDEVELOPMENT



Support from Product Selection Through Installation

Every site is different – so choose the right vapor intrusion mitigation solution. Tell us what soil contaminants you are dealing with, and we'll guide you to the best-fit Drago solution—complete with accessories for a full system approach.

Our goal is to serve as educators that teach your team the best practices to stay efficient and get things done right the first time. Contact us before our Drago products have been installed.

stegoindustries.com/drago-wrap





The Smart Solution for Vapor Intrusion Defense

Brownfield redevelopment requires some of the most intense due diligence of any type of design. The human health, liability, and profitability impacts of construction on contaminated sites raise the stakes dramatically. A properly installed, high-performance vapor intrusion barrier, along with the right product selection, is a critical component in combating harmful soil gases, providing a safer, healthier environment for the building's occupants.

Take the first step toward building safer spaces by choosing proven Drago barriers and retarders against VOCs, hydrocarbons, methane, radon, and other soil gases. Engineered for reliable vapor intrusion defense, Drago Wrap helps you meet project specifications with confidence and deliver lasting protection beneath every slab.

Let's work together to create a safer, healthier environment for your building's occupants.

Connect with our team of experts to get the right materials in place and help protect your project from harmful soil gases.

877-464-7834

stegoindustries.com

SHOP DRAGO ACCESSORIES AT:
www.stegoindustries.com/drago





DRAGO® WRAP VAPOR INTRUSION BARRIER

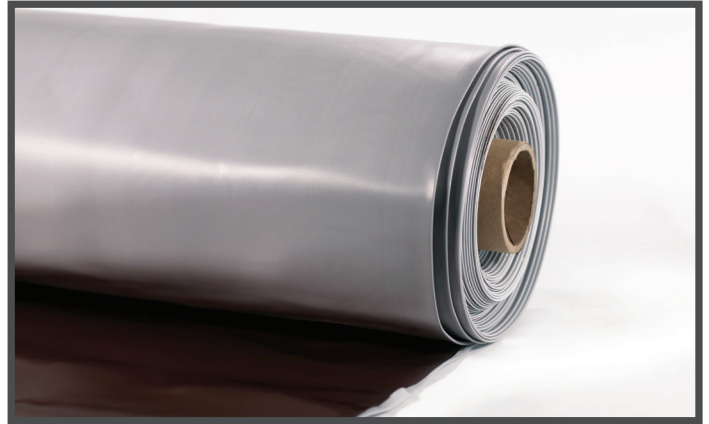
A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

1. PRODUCT NAME

DRAGO WRAP VAPOR INTRUSION BARRIER

2. MANUFACTURER

Stego Industries, LLC
 216 Avenida Fabricante, Suite 101
 San Clemente, CA 92672
 Sales, Technical Assistance
 Ph: (877) 464-7834
 contact@stegoindustries.com
stegoindustries.com



3. PRODUCT DESCRIPTION

USES: Drago Wrap Vapor Intrusion Barrer is specifically engineered to attenuate volatile organic compounds (VOCs) and serve as a below-slab moisture vapor barrier.

COMPOSITION: Drago Wrap Vapor Intrusion Barrer is a multi-layered plastic extrusion that combines uniquely designed materials with only high grade, prime, virgin resins.

ENVIRONMENTAL FACTORS: Drago Wrap Vapor Intrusion Barrer can be used in systems for the control of various VOCs including hydrocarbons, chlorinated solvents, radon, methane, soil poisons, and sulfates.

4. TECHNICAL DATA

TABLE 4.1: PHYSICAL PROPERTIES OF DRAGO WRAP VAPOR INTRUSION BARRIER

PROPERTY	TEST	RESULTS
Under Slab Vapor Retarders	ASTM E1745 – Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	ASTM E1745 Compliant
Water Vapor Permeance	ASTM F1249 – Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	0.0069 perms
Push-Through Puncture	ASTM D4833 – Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products	183.9 Newtons
Tensile Strength	ASTM D882 – Test Method for Tensile Properties of Thin Plastic Sheeting	53.5 lbf/in
Permeance After Conditioning [ASTM E1745 Sections 7.1.2 - 7.1.5]	ASTM E154 Section 8, F1249 – Permeance after wetting, drying, and soaking ASTM E154 Section 11, F1249 – Permeance after heat conditioning ASTM E154 Section 12, F1249 – Permeance after low temperature conditioning ASTM E154 Section 13, F1249 – Permeance after soil organism exposure	0.0073 perms 0.0070 perms 0.0062 perms 0.0081 perms
Hydrocarbon Attenuation Factors	Contact Stego Industries' Technical Department	
Chlorinated Solvent Attenuation Factors	Contact Stego Industries' Technical Department	
Methane Transmission Rate	ASTM D1434 – Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting	7.0 GTR** (mL(STP)/m ² *day)
Radon Diffusion Coefficient	K124/02/95	9.8 x 10 ⁻¹⁴ m ² /second
Thickness		20 mil
Roll Dimensions		14' x 105' or 1,470 ft ²
Roll Weight		150 lb

Note: perm unit = grains/(ft²*hr*in-Hg) ** GTR = Gas Transmission Rate

DRAGO WRAP VAPOR INTRUSION BARRIER

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

5. INSTALLATION

UNDER SLAB: Unroll Drago Wrap Vapor Intrusion Barrer over a tamped aggregate, sand, or earth base. Overlap all seams a minimum of 12 inches and tape using DragoSeal® Tape. All penetrations must be sealed using a combination of Drago Wrap Vapor Intrusion Barrer and Drago Accessories.

Drago Wrap should be installed below 110°F. Do not exceed 7 days between Drago Wrap installation and concrete placement or full protection from UV and weather exposure. Please review technical data sheets for Drago accessory products for installation/application temperature ranges.

Review Drago Wrap Vapor Intrusion Barrer's complete installation instructions prior to installation.

6. AVAILABILITY & COST

Drago Wrap Vapor Intrusion Barrer is available nationally through our network of building supply distributors. For current cost information, contact your local Drago distributor or Stego® Sales Representative.

7. WARRANTY

Stego believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego does not guarantee results from the use of the information provided herein. Stego does offer a limited warranty on Drago Wrap Vapor Intrusion Barrer. Please see stegoindustries.com/legal

8. MAINTENANCE AND STORAGE

Maintenance: Inspect after installation. Repair visible damage with DragoSeal Tape or recommended accessories.
Storage and Handling: Store in original packaging in a cool, dry place. Handle with care to avoid damage.

Please refer to the Safety Data Sheet (SDS) for detailed safety, storage, and handling procedures.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego or by visiting the website.

Email: contact@stegoindustries.com
Contact Number: (877) 464-7834
Website: stegoindustries.com

10. FILING SYSTEMS: stegoindustries.com





DRAGOSEAL® TAPE

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

1. PRODUCT NAME

DRAGOSEAL TAPE

2. MANUFACTURER

Stego Industries, LLC
 216 Avenida Fabricante, Suite 101
 San Clemente, CA 92672
 Sales, Technical Assistance
 Ph: (877) 464-7834
 contact@stegoindustries.com
 stegoindustries.com



3. PRODUCT DESCRIPTION

USES: DragoSeal Tape is a low permeance, solvent resistant tape designed for protective sealing, seaming, splicing, and patching applications. It is engineered to adhere to a variety of surfaces and is ideal for sealing Drago® Wrap seams.

COMPOSITION: DragoSeal Tape is a multi-layered plastic extrusion that combines uniquely designed materials with only high grade, prime, virgin resins, and a solvent resistant blend of synthetic rubber and resins.

SIZE: DragoSeal Tape is 4" x 50'. DragoSeal Tape ships 6 rolls in a case.

4. TECHNICAL DATA

TABLE 4.1: PHYSICAL PROPERTIES OF DRAGOSEAL TAPE

PROPERTY	TEST	RESULTS
Dimensions		4" x 50'
Total Thickness		26 mil
Color		Grey
Material		Engineered film and synthetic rubber blend
Permeance	ASTM F1249	<0.02 perms (26 mil)
Adhesion to Steel	ASTM D1000	12.5 lbf/in width
Chemical Resistance (TCE, PCE, Toluene, Xylene)	ASTM D471 / D543	No significant change to mass or volume
Installation Temperature		40°F / 110°F
In Service Temperature Range		-20°F / 140°F
VOC Content		No VOCs, 100% solids

Note: perm unit = grains/(ft²*hr*in-Hg)

DRAGOSEAL TAPE

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

5. INSTALLATION

Cut DragoSeal Tape with a utility knife or scissors before removing the release liner for easier cutting. Ensure that the entirety of all seams are taped with applied pressure to allow for maximum and continuous adhesion.

SEAMS: Overlap Drago Wrap a minimum of 12 inches and seal with DragoSeal Tape. Make sure the area of adhesion is free from dust, moisture and frost to allow for maximum adhesion.

PIPE PENETRATION SEALING:

- Install Drago Wrap around pipe by slitting/cutting material.
- If void space is minimal, seal around the base of the pipe using either DragoSeal Tape, Drago® Sealant and Drago® Sealant Form, or Drago® Mastic.

DETAIL PATCH FOR PIPE PENETRATION SEALING:

- Cut a piece of Drago Wrap that creates a 6 inch overlap around all edges of the void space at the base of the pipe.
- Cut an "X" slightly smaller than the size of the pipe diameter in the center of the detail patch.
- Slide detail patch over pipe, secure tightly.
- Tape down all sides of detail patch using DragoSeal Tape.
- Seal around the base of the pipe using either DragoSeal Tape, Drago Sealant and Drago Sealant Form, or Drago Mastic.

Install DragoSeal Tape between 40°F and 100°F. Do not exceed 7 days between DragoSeal Tape installation and concrete placement or full protection from UV and weather exposure.

Review Drago Wrap's complete installation instructions prior to installation.

6. AVAILABILITY & COST

DragoSeal Tape is available through our network of building supply distributors. For current cost information, contact your local Drago distributor or Stego® Sales Representative.

7. WARRANTY

Stego believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego does not guarantee results from the use of the information provided herein. Stego does offer a limited warranty on Drago Wrap. Please see stegoindustries.com/legal

8. MAINTENANCE AND STORAGE

Maintenance: Check post-application. Replace or overlay areas that show wear.

Storage and Handling: Store in original packaging in cool, dry conditions. Ensure surfaces for application are clean for best adhesion.

Please refer to the Safety Data Sheet (SDS) for detailed safety, storage, and handling procedures.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego or by visiting the website.

Email: contact@stegoindustries.com

Contact Number: (877) 464-7834

Website: stegoindustries.com

10. FILING SYSTEMS: stegoindustries.com





DRAGOTACK® TAPE

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

1. PRODUCT NAME

DRAGOTACK TAPE

2. MANUFACTURER

Stego Industries, LLC
 216 Avenida Fabricante, Suite 101
 San Clemente, CA 92672
 Sales, Technical Assistance
 Ph: (877) 464-7834
 contact@stegoindustries.com
stegoindustries.com



3. PRODUCT DESCRIPTION

USES: Dragotack Tape is a solvent-resistant, double-sided adhesive strip used to bond and seal Drago® Wrap to concrete, masonry, wood, metal, and other surfaces. Dragotack Tape is a flexible and moldable material to allow for a variety of applications and installations.

COMPOSITION: Dragotack Tape is made from a solvent-resistant blend of synthetic rubber and resins.

SIZE: Dragotack Tape is 2" x 50'. Dragotack Tape ships 12 rolls in a case.

4. TECHNICAL DATA

TABLE 4.1: PHYSICAL PROPERTIES OF DRAGOTACK TAPE

PROPERTY	TEST	RESULTS
Dimensions		2" x 50'
Total Thickness		30 mil
Color		Grey
Material		Synthetic rubber blend
Permeance	ASTM F1249	0.03 perms (30 mil)
Adhesion to Steel	ASTM D1000	12.5 lbs/in width
Chemical Resistance (TCE, PCE, Toluene, Xylene)	ASTM D471 / D543	No significant change to mass or volume.
Installation Temperature		40°F / 110°
In Service Temperature Range		-20°F / +140°F
VOC Content		No VOCs, 100% solids

Note: perm unit = grains/(ft²*hr*in-Hg)

DRAGOTACK TAPE

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

5. INSTALLATION

TO WALLS AND FOOTINGS: Make sure the area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion. Remove release liner on one side and stick to desired surface. When ready to apply Drago Wrap, remove the exposed release liner and press Drago Wrap firmly against DragoTack Tape to secure.

Cut DragoTack Tape using a utility knife or scissors. Cut DragoTack Tape before removing the release liner for easier cutting.

Install DragoTack Tape between 40°F and 100°F. Do not exceed 7 days between DragoTack Tape installation and concrete placement or full protection from UV and weather exposure.

Review Drago Wrap's complete installation instructions prior to installation.

6. AVAILABILITY & COST

DragoTack Tape is available nationally through our network of building supply distributors. For current cost information, contact your local Drago distributor or Stego® Sales Representative.

7. WARRANTY

Stego believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego does not guarantee results from the use of the information provided herein. Stego does offer a limited warranty on Drago Wrap. Please see stegoindustries.com/legal

8. MAINTENANCE AND STORAGE

Maintenance: Check post-application. Replace or overlay areas that show wear.

Storage and Handling: Store in original packaging in cool, dry conditions. Ensure surfaces for application are clean for best adhesion.

Please refer to the Safety Data Sheet (SDS) for detailed safety, storage, and handling procedures.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego or by visiting the website.

Email: contact@stegoindustries.com

Contact Number: (877) 464-7834

Website: stegoindustries.com

10. FILING SYSTEMS: stegoindustries.com





DRAGO® MASTIC

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

1. PRODUCT NAME

DRAGO MASTIC

2. MANUFACTURER

Stego Industries, LLC
 216 Avenida Fabricante, Suite 101
 San Clemente, CA 92672
 Sales, Technical Assistance
 Ph: (877) 464-7834
 contact@stegoindustries.com
stegoindustries.com



3. PRODUCT DESCRIPTION

USES: Drago Mastic is designed to be used as a vapor intrusion membrane in conjunction with Drago® Wrap. Drago Mastic can be used for sealing utility or pipe penetrations, and terminating edges against existing adjacent concrete or other foundation constructions.

COMPOSITION: Drago Mastic is a medium viscosity, water-based, polymer-modified anionic bituminous/asphalt emulsion.

SIZE: Drago Mastic comes in a 5-gallon pail.

4. TECHNICAL DATA

TABLE 1: PHYSICAL PROPERTIES OF DRAGO MASTIC

PROPERTY	TEST	RESULTS
Permeance Rating	ASTM E96	0.08 perms
Tensile Strength	ASTM D412	87 psi
Elongation	ASTM D412	1800%
Adhesion to Concrete	ASTM C836	Exceeds
Shore Hardness	ASTM C836	75
Crack Bridging	ASTM C836	Exceeds
Low Temp Flexibility	ASTM C836	No Cracking
Chemical Resistance (TCE, PCE, Toluene, Xylene)	ASTM D471/D543	No significant negative change to mass or volume.

Note: perm unit = grains/(ft²*hr*in-Hg)

DRAGO MASTIC

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

5. INSTALLATION

PREPARATION:

- A test application simulating the project environment should always be done prior to final usage of Drago Mastic.
- All surfaces should be dry and free of loose materials, oils and other contaminants. The surfaces should be cleaned in the same fashion as the test surface in order to ensure proper results.

PENETRATIONS:

To repair penetrations in Drago Wrap, cut Drago Wrap just big enough to fit over and around the penetration so as to minimize void space. Liberally apply Drago Mastic around the penetration to keep the integrity of the membrane intact. Drago Mastic can be applied from pails by brush, roller, or trowel.

NOTES: 1) If needed to minimize void space around penetrations, utilize a detail patch of Drago Wrap to fit over the penetration and seal the patch/boot with DragoSeal™ Tape prior to applying Drago Mastic. 2) Solvent-based products should not be applied over this product. 3) Clean all tools with kerosene and/or oil-based cleaners.

Drago Mastic should be installed above 40°F. In temperatures below 40°F take extra care to remove moisture or frost from the area of adhesion. Do not exceed 7 days between Drago Mastic installation and concrete placement or full protection from UV and weather exposure.

For additional information, please refer to Drago's complete installation instructions.

6. AVAILABILITY & COST

Drago Mastic is available through our network of building supply distributors. For current cost information, contact your local Drago distributor or Stego® Sales Representative.

7. WARRANTY

Stego believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego does not guarantee results from the use of the information provided herein. Stego does offer a limited warranty on Drago Wrap. Please see stegoindustries.com/legal

8. MAINTENANCE AND STORAGE

Maintenance: None required.

Storage and Handling: Store between 40°F and 100°F, and apply above 40°F and below 130°F.

Please refer to the Safety Data Sheet (SDS) for detailed safety, storage, and handling procedures.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego or by visiting the website.

Email: contact@stegoindustries.com

Contact Number: (877) 464-7834

Website: stegoindustries.com

10. FILING SYSTEMS: stegoindustries.com





DRAGO® MASTIC SPRAY GRADE

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: APR 10, 2025

1. PRODUCT NAME

DRAGO MASTIC SPRAY GRADE

2. MANUFACTURER

Stego Industries, LLC
 216 Avenida Fabricante, Suite 101
 San Clemente, CA 92672
 Sales, Technical Assistance
 Ph: (877) 464-7834
 contact@stegoindustries.com
stegoindustries.com



3. PRODUCT DESCRIPTION

USES: Drago Mastic Spray Grade is a polymer modified asphalt emulsion membrane. It is designed and recommended for use on seams in Drago Wrap as needed to create a monolithic membrane or to seal terminating edges of Drago Wrap to existing foundation constructions. Drago Mastic Spray Grade forms a tough, durable membrane which maintains its superior performance properties when exposed to the chemicals found in soil.

COMPOSITION: Drago Mastic Spray Grade is a medium viscosity, water-based, polymer-modified anionic bituminous/asphalt emulsion.

SIZE: Drago Mastic Spray Grade comes in a 55-gallon drum.

4. TECHNICAL DATA

TABLE 1: PHYSICAL PROPERTIES OF DRAGO MASTIC SPRAY GRADE

PROPERTY	TEST	RESULTS
Permeance Rating	ASTM E96	0.08 perms
Tensile Strength	ASTM D412	87 psi
Elongation	ASTM D412	1800%
Adhesion to Concrete	ASTM C836	Exceeds
Shore Hardness	ASTM C836	75
Crack Bridging	ASTM C836	Exceeds
Low Temp Flexibility	ASTM C836	No Cracking
Chemical Resistance (TCE, PCE, Toluene, Xylene)	ASTM D471/D543	No significant negative change to mass or volume.

Note: perm unit = grains/(ft²*hr*in-Hg)

5. INSTALLATION

PREPARATION:

- A test application simulating the project environment should always be done prior to final usage of Drago Mastic Spray Grade.
- All surfaces should be dry and free of loose materials, oils and other contaminants. The surfaces should be cleaned in the same fashion as the test surface in order to ensure proper results.
- Store above 40°F, and apply above 40°F and below 100°F. Do not allow to freeze.

Continued...

Note – legal notice on page 2.

DRAGO® MASTIC SPRAY GRADE

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: APR 10, 2025

5. INSTALLATION *CONTINUED...*

APPLICATION: After all surfaces have been properly prepared, spray, roller or brush apply Drago Mastic Spray Grade where desired. A two-pass application is generally recommended to ensure sufficient dry mil thickness without excessive running or puddling. Warming the material to 100-130°F immediately prior to spraying to help ensure a smooth, consistent spray pattern. Drago Mastic Spray Grade should be installed above 40°F. Do not exceed 7 days between Drago Mastic Spray Grade installation and concrete placement or full protection from UV and weather exposure.

SPRAY EQUIPMENT RECOMMENDATIONS: Gasoline powered, airless spray units with a minimum 4,000 psi rating will effectively spray Drago Mastic Spray Grade. For efficient spraying, use a heat exchanger to warm product to 100-130°F immediately prior to spraying. A reverse-a-clean spray tip with an orifice between 0.029 and 0.035 is recommended for spraying Drago Mastic Spray Grade. Most spray systems utilize 150' of hose. Use ½ inch, 5,400 psi rated hose for the first 100 feet. Use 3/8 inch, 4,700 psi rated hose for the next 50 feet. A 4 foot, ¼ inch whip line is used immediately before the spray gun to facilitate spraying. Do not mix water and solvent based materials in the hose lines. Clean lines with mineral spirits before switching materials. Clean spray equipment with mineral spirits.

For additional information, please refer to Drago's specifications and complete installation instructions.

6. AVAILABILITY & COST

Drago Mastic Spray Grade is available through our network of building supply distributors. For current cost information, contact your local Drago distributor or Stego® Sales Representative.

7. WARRANTY

Stego believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego does not guarantee results from the use of the information provided herein. Stego does offer a limited warranty on Drago Wrap. Please see stegoindustries.com/legal

8. MAINTENANCE AND STORAGE

Maintenance: None required.

Storage and Handling: Store between 40°F and 100°F. Do not allow to freeze.

Please refer to the Safety Data Sheet (SDS) for detailed safety, storage, and handling procedures.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego or by visiting the website.

Email: contact@stegoindustries.com

Contact Number: (877) 464-7834

Website: stegoindustries.com

10. FILING SYSTEMS: stegoindustries.com





DRAGO® SEALANT

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

1. PRODUCT NAME

DRAGO SEALANT

2. MANUFACTURER

Stego Industries, LLC
 216 Avenida Fabricante, Suite 101
 San Clemente, CA 92672
 Sales, Technical Assistance
 Ph: (877) 464-7834
 contact@stegoindustries.com
 stegoindustries.com



3. PRODUCT DESCRIPTION

USES: Drago Sealant is designed to be used as a vapor intrusion membrane in conjunction with Drago® Wrap. Drago Sealant can be used as an alternate to detail patches for penetrations in Drago Wrap.

COMPOSITION: Drago Sealant is a two-component, 100% solids, semi-rigid epoxy sealant.

SIZE: Drago Sealant comes in a 4-gallon kit size: Two 1-gallon cans of Part A (Resin) and two 1-gallon cans of Part B (Hardener).

COVERAGE: 96ft² @ 60-mils per kit (4 gallons of product).

4. TECHNICAL DATA

TABLE 4.1: PHYSICAL PROPERTIES OF DRAGO SEALANT

PROPERTY	TEST	RESULTS
Mix Ratio (A:B by volume)		1:1
Mixed Viscosity		4,000 - 7,000 cp
Gel Time (100 g)		50-60 mins
Pot Life (full unit)		30-45 mins
Tack Free Time		5-6 hours
Shore A Hardness	ASTM D2240	80-90
Tensile Strength	ASTM D638	800 psi
Tensile Elongation %	ASTM D638	95-105%
Water Vapor Permeance	ASTM F1249	0.015 perms @ 60-mils
Chemical Resistance (TCE, PCE, Toluene, Xylene)	ASTM D471/D543	No significant change to mass or volume.

Note: perm unit = grains/(ft²*hr*in-Hg)

5. INSTALLATION

PREPARATION:

- A test application simulating the project environment should always be done prior to final usage of Drago Sealant.
- All surfaces should be dry and free of loose materials, oils, and other contaminants. The surfaces should be cleaned in the same fashion as the test surface in order to ensure proper application.
- Drago Sealant can be applied to virtually any shape or contour by brush, paint roller, trowel or squeegee at various spread rates.

Continued...

Note – legal notice on page 2.

DRAGO SEALANT

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

PREPARATION: *Continued...*

- Drago Sealant comes in a 4-gallon kit size. It consists of two 1-gallon cans of Part A (Resin) and two 1-gallon cans of Part B (Hardener). Mix the following with a drill and mixing paddle (Note: If using a drill mixer, use a low speed [not to exceed 300 rpm] to prevent air entrapment):
 - Premix Part A and Part B separately. Combine 1 part by volume of Part A to 1 part by volume of Part B and mix thoroughly. Do not thin. Scrape the side and bottom of the mixing container to assure uniform and complete mixing. Mix for 2-3 minutes. Do not aerate mix.

PENETRATIONS:

- To repair penetrations in Drago Wrap, cut a hole in Drago Wrap such that the membrane fits over and around the base of the pipes as closely as possible, ensuring that it is flush with the base of the penetrations.
- Install Drago® Sealant Form continuously around the entire perimeter of the group of penetrations and at least 1 inch beyond the terminating edge of Drago Wrap.
- Pour Drago Sealant inside of Drago Sealant Form to create a seal around the penetrations.
- If the void space between Drago Wrap and the penetrations is not minimized and/or the base course allows for too much drainage of the sealant, a second coat of Drago Sealant may need to be poured after the first application has cured.

Install Drago Sealant between 50°F and 140°F. Optimum ambient temperature is between 50°F and 90°F during application. Note: Cure times are affected by ambient and surface temperatures. Temperatures of 40°F and lower can slow cure times. Temperatures of 90°F and higher will speed up cured times and reduce working time. Do not exceed 7 days between Drago Sealant installation and concrete placement or full protection from UV and weather exposure.

Review Drago Wrap's complete installation instructions prior to installation.

6. AVAILABILITY & COST

Drago Sealant is available through our network of building supply distributors. For current cost information, contact your local Drago distributor or Stego® Sales Representative.

7. WARRANTY

Stego believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego does not guarantee results from the use of the information provided herein. Stego does offer a limited warranty on Drago Wrap. Please see stegoindustries.com/legal

8. MAINTENANCE AND STORAGE

Maintenance: None required.

Storage and Handling: Store locked up in a dry and temperate area.

Please refer to the Safety Data Sheet (SDS) for detailed safety, storage, and handling procedures.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego or by visiting the website.

Email: contact@stegoindustries.com

Contact Number: (877) 464-7834

Website: stegoindustries.com

10. FILING SYSTEMS: stegoindustries.com





DRAGO® SEALANT FORM

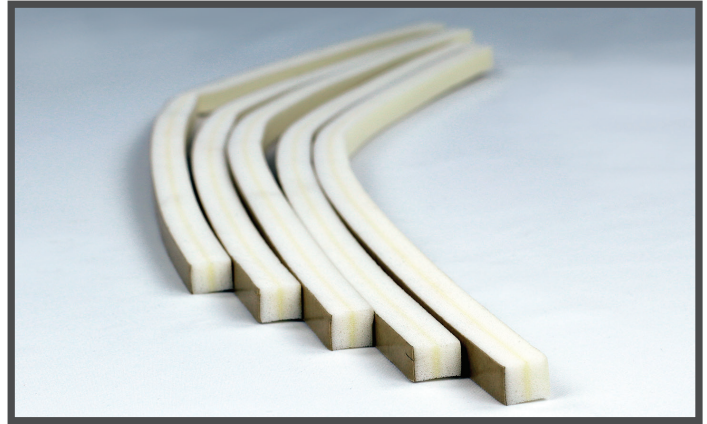
A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

1. PRODUCT NAME

DRAGO SEALANT FORM

2. MANUFACTURER

Stego Industries, LLC
 216 Avenida Fabricante, Suite 101
 San Clemente, CA 92672
 Sales, Technical Assistance
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 contact@stegoindustries.com
stegoindustries.com



3. PRODUCT DESCRIPTION

USES: Drago Sealant Form is used in conjunction with Drago® Sealant to help create an efficient and effective seal around pipe penetrations in Drago® Wrap.

COMPOSITION: Drago Sealant Form is a low-density, cross-linked, closed-cell polyethylene foam with an acrylic, pressure-sensitive adhesive.

SIZE: Drago Sealant Form is 1/2" x 1/2" x 24". Drago Sealant Form comes in 200 pieces per case (10 boxes of 20 pieces).

4. TECHNICAL DATA

TABLE 4.1: PHYSICAL PROPERTIES OF DRAGO SEALANT FORM

PROPERTY	RESULTS
Dimensions	1/2" x 1/2" x 24"
Color	White
Weight	0.11 oz (3.1 grams)

5. INSTALLATION

PENETRATIONS: Make sure the area of adhesion is free of dust, debris, moisture, and frost to allow maximum adhesion. When ready to apply to Drago Wrap, remove the release liner and press Drago Sealant Form firmly against Drago Wrap to secure. Install Drago Sealant Form continuously around the entire perimeter of the penetration(s) and at least 1 inch beyond the terminating edge of Drago Wrap. Pour Drago Sealant inside of Drago Sealant Form to create a seal around the penetration(s).

Install Drago Sealant Form between 40°F and 110°F. Do not exceed 7 days between Drago Sealant Form installation and concrete placement or full protection from UV and weather exposure.

Review Drago Wrap’s complete installation instructions prior to installation.

6. AVAILABILITY & COST

Drago Sealant Form is available nationally through our network of building supply distributors. For current cost information, contact your local Drago distributor or Stego® Sales Representative.

DRAGO® SEALANT FORM

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: FEB 4, 2025

7. WARRANTY

Stego believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego does not guarantee results from the use of the information provided herein. Stego does offer a limited warranty on Drago Wrap. Please see stegoindustries.com/legal

8. MAINTENANCE AND STORAGE

Maintenance: None required.

Storage and Handling: Store Drago Sealant Form in a dry and temperate area.

Please refer to the Safety Data Sheet (SDS) for detailed safety, storage, and handling procedures.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego or by visiting the website.

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10. FILING SYSTEMS: stegoindustries.com





DRAGO® WRAP

VAPOR INTRUSION BARRIER INSTALLATION INSTRUCTIONS



ENGINEERED PERFORMANCE
LIFE OF THE BUILDING™ PROTECTION



Additional Drago Wrap installation resources and videos are available on our website at:

stegoindustries.com/resources



CONTENTS

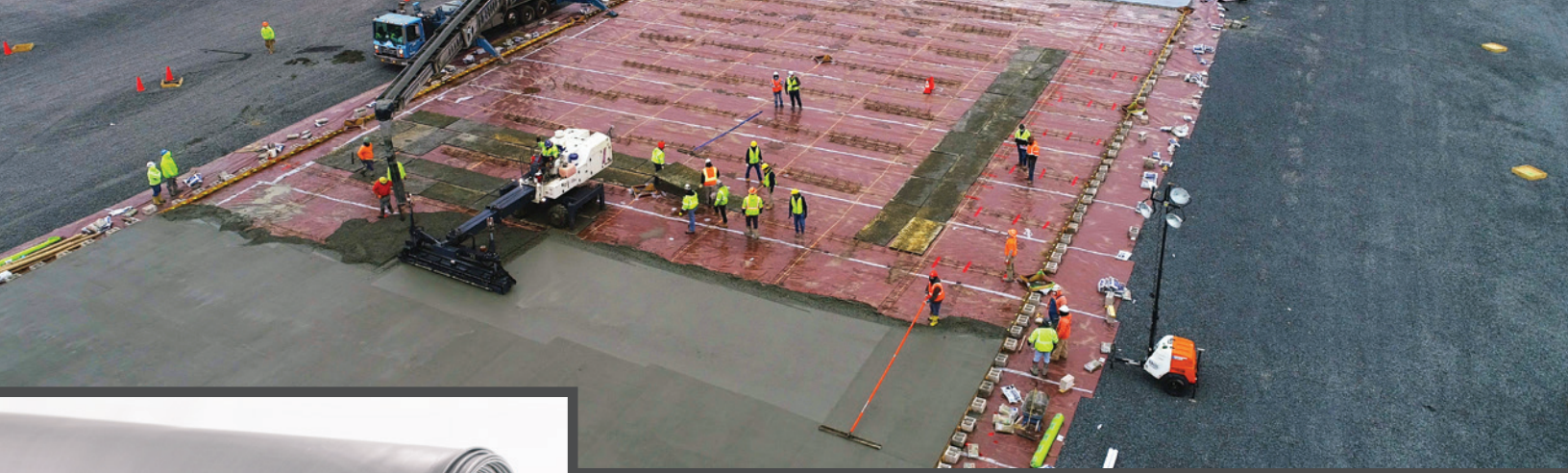
The installation recommendations set forth in these instructions are generally based on ASTM E1643 and specific applications of Drago products. Each section provides explanations and options for the varying conditions.

SECTION 1	Drago Wrap and Drago Accessories	3
SECTION 2	Creating a Monolithic Membrane	4
SECTION 3	Where to Terminate the Drago Wrap	5
SECTION 4	Sealing Drago Wrap at Terminating Edges	6,7
SECTION 5	Sealing Damaged Areas	8
SECTION 6	Sealing Single Pipe Penetrations	9
SECTION 7	Sealing Multiple Pipe Penetrations	10
SECTION 8	Avoid Punctures with Beast Concrete Accessories	11



Stego Installation Support - A Free Service

When you choose **Stego® Barrier Solutions** and products, you gain access to a large nationwide network of full-time technical sales representatives providing unmatched local support and service. If you ever have a question or concern regarding the following installation scenarios please contact us and take advantage of our free Stego Installation Support.



Drago Wrap

Drago® Wrap Vapor Intrusion Barrier is a multi-layered plastic extrusion that combines uniquely designed materials with only high grade, prime, virgin resins. This patented barrier technology provides high performance and longevity, allowing for the redevelopment of contaminated sites, creating a healthy built environment.

Drago Accessories

At Stego, we know every project has its own unique challenges. To make a Drago Wrap installation easy and flexible, we offer an extensive line of accessory items that gives you options to create a monolithic membrane between all interior intrusion pathways and vapor sources below the slab as well as at the slab perimeter. **Consult the project architect, owner's representative, and design engineer of record before proceeding with any of these options.**



DragoSeal® Tape

Combines Drago Wrap technology with a powerful adhesive for a barrier solution to seal seams, patches, and other details, defending against vapor intrusion.



DragoTack® Tape

A solvent-resistant, double-sided adhesive strip used to bond and seal Drago Wrap to concrete, masonry, wood, metal, and other surfaces.



Drago® Sealant

A two-component, high-performance epoxy, designed to be used with Drago Wrap for sealing utility and pipe penetrations.



Drago® Mastic

A polymer-modified anionic asphalt emulsion, designed to be used with Drago Wrap, for sealing utility, pipe penetrations, and terminating edges.



Drago® Sealant Form

A low-density, cross-linked, closed-cell polyethylene foam designed to be used as a detailing piece with Drago Sealant.

Creating a Monolithic Membrane

The key to an effective Drago Wrap installation is to create a monolithic layer of protection between the building foundation and vapor sources below. While Drago Wrap installation instructions are generally based on ASTM E1643 - *Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs*, these instructions are meant to be used as a guide, and do not take into account specific job site situations. Consult local building codes and regulations along with the building owner or owner's representative before proceeding.

ASTM E1643 discusses the selection of the vapor retarder and preparation of the subbase to minimize potential damage during installation and concrete placement.

ASTM E1643, Section 5.3.4.1 - *Select a vapor retarder material capable of withstanding potential construction site damage.*

ASTM E1643, Section 5.3.5.1 - *Select vapor retarder material capable of withstanding tear or puncture damage due to the type, gradation, and texture of the base material to be installed below the material. Prepare base material to minimize risk of puncture, for example, by rolling or compacting.*

ASTM E1643, Section 6.1 - *Level and compact base material.*

ASTM E1643 then states to create a monolithic membrane to protect the slab from adjacent moisture sources.

ASTM E1643, Section 6.4 - . . . *create a monolithic membrane between the surface of the slab and vapor sources below the slab as well as at the slab perimeter.*

ASTM E1643, Section 6.5 - *Lap joints as instructed by the manufacturer and seal laps in accordance with the manufacturer's recommendations.*

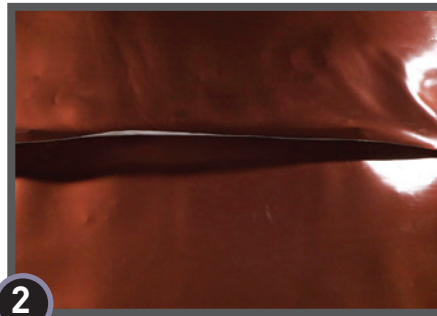
Drago Wrap can be installed over an aggregate, sand, or tamped earth base. It is not typically necessary to have a cushion layer or sand base, as Drago Wrap is tough enough to withstand rugged construction environments. Consult the design team for project-specific recommendations.



1

Unroll Drago Wrap over the area where the slab is to be placed.

Note: Grey color side of membrane is face-down, copper color side is face-up.



2

Unless otherwise indicated by the design professional(s) of record, unfold Drago Wrap to completely cover the placement area.



3

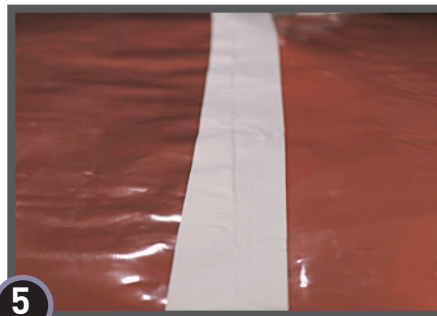
All joints/seams should be overlapped a minimum of 12 inches.



4

Ensure Drago Wrap is clean and dry when applying DragoSeal Tape.

Tip: Use a cloth or other means to remove dust, debris, and excess moisture from Drago Wrap prior to applying DragoSeal Tape.



5

Seal the seams with DragoSeal Tape.

Note: Remove the release liner of DragoSeal Tape prior to application. After applying DragoSeal Tape, use consistent, firm pressure along the 4" width of DragoSeal Tape to ensure continuous adhesion. Optional ~4" steel roller is ideal.



OPTIONAL SEALING METHOD:

Hot air wedge welding equipment is ideal for heat welding seams of Drago Wrap.

Where to Terminate the Drago Wrap

Always consult the project design team for where to terminate the vapor barrier to strike a balance between the location of the vapor barrier on or around foundation constructions and any structural concerns before proceeding.

ASTM E1643 provides direction on where to terminate the vapor barrier as follows:

ASTM E1643, Section 6.4 - *Extend vapor retarder over footings and seal to foundation wall, grade beam, or slab at an elevation consistent with the top of the slab or terminate at impediments such as waterstops or dowels...*

ASTM E1643, Section 6.6 - *Extend vapor retarder over the tops of pile caps and grade beams to a distance acceptable to the structural engineer.*

In accordance with ASTM E1643, terminate the Drago Wrap as follows:

At an elevation (height) consistent with the top of the slab;



Note: Turn Drago Wrap up foundation walls or forms. Ensure Drago Wrap is flush against the corner to avoid tenting.

At Impediments; OR



Note: Impediments may include rebar, dowels, water stops, etc. and may be located at interior grade beams in addition to perimeter walls and footings.

At a location of termination designated by the project design team.



Note: The distance to which the vapor barrier is extended adjacent to, onto, or completely over a footing or grade beam should be determined by the project design team.

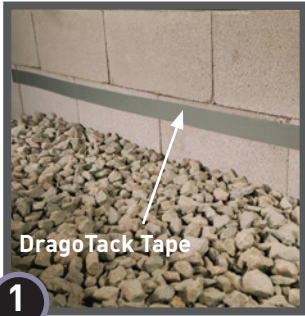
If the location of vapor barrier termination has not been clearly addressed in the construction documents, then clarification should be requested from the project design team. Should no direction be given, Stego recommends the project team follow, at minimum, the guidelines of ASTM E1643.

Regardless of where the vapor barrier is determined to be terminated, ASTM E1643 requires the terminating edges to be sealed.

Sealing the Terminating Edges of Drago Wrap Up Foundation Walls & Vertical Surfaces Using DragoTack Tape or DragoSeal Tape

DragoTack Tape or DragoSeal Tape can be used to seal Drago Wrap to foundation walls, grade beams or other adjacent concrete constructions.

IMPORTANT: Make sure the area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion.



Remove the release liner on one side of **DragoTack Tape** and adhere to foundation wall at the height of the slab or at impediments.



When ready to apply Drago Wrap, remove the exposed release liner from **DragoTack Tape**.

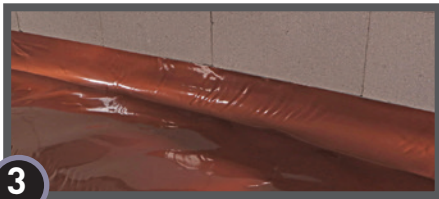
OR



Extend Drago Wrap up the vertical surface, likely to the height of the slab.
Note: See Where to Terminate the Drago Wrap, page 5.



Apply **DragoSeal Tape** on the perimeter edge so that 2" is on the Drago Wrap and 2" is on the wall/vertical surface. Press firmly to secure.



Press Drago Wrap firmly against **DragoTack Tape** to secure.



MECHANICAL SEAL OPTION:
If a mechanical seal is needed, fasten a termination bar over the top of the Drago Wrap in line with the **DragoTack Tape** (as shown in image) **or** **DragoSeal Tape**.

Using Drago Mastic

IMPORTANT: Make sure the area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion.



Apply Drago Mastic to the foundation wall at the anticipated edge of the subsequently applied Drago Wrap at the height of the slab or impediments.



Press Drago Wrap firmly against the applied Drago Mastic on the foundation wall.



Fasten a termination bar over the top of the Drago Wrap in line with the Drago Mastic.

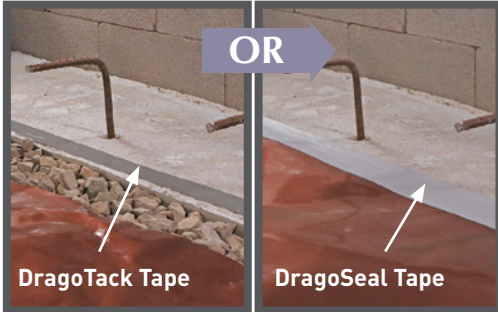


Sealing the Terminating Edges of Drago Wrap on a Horizontal Plane

Always consult the project design team for where to terminate the vapor barrier to strike a balance between the location of the vapor barrier on or around foundation constructions and any structural concerns before proceeding.

After the location of where to terminate the vapor barrier has been determined, seal Drago Wrap along all terminating edges as indicated by the project team.

Using DragoTack Tape or DragoSeal Tape



Onto a Perimeter Footing at Impediments: Seal Drago Wrap to concrete with **DragoTack Tape** or **DragoSeal Tape**.



Onto Interior Grade Beams at Impediments: Seal Drago Wrap to concrete with **DragoTack Tape** or **DragoSeal Tape**.



At a Location Designated by the Design Team: Seal Drago Wrap to concrete with **DragoTack Tape** or **DragoSeal Tape**.



MECHANICAL SEAL OPTION:

If a mechanical seal is needed, fasten a termination bar over the top of the Drago Wrap inline with the **DragoTack Tape** (as shown in image); or fasten a termination bar over the 2" of **DragoSeal Tape** that is on top of Drago Wrap (not shown).

Using Drago Mastic



Onto a Perimeter Footing at Impediments: Seal Drago Wrap to concrete with Drago Mastic.



Onto Interior Grade Beams at Impediments: Seal Drago Wrap to concrete with Drago Mastic.



At a Location Designated by the Design Team: Seal Drago Wrap to concrete with Drago Mastic.



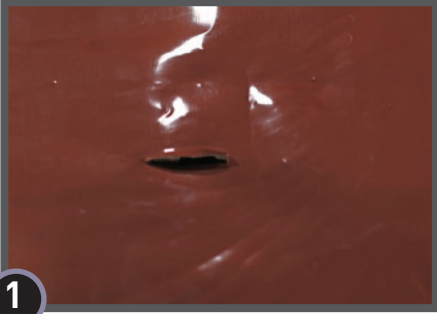
MECHANICAL SEAL OPTION:

If a mechanical seal is needed, fasten a termination bar over the top of the Drago Wrap inline with the Drago Mastic.

See
"Where to Terminate the Vapor Barrier"
on page 5 prior to choosing your
terminating edge sealing accessory.

Sealing Damaged Areas: Small Hole or Slice

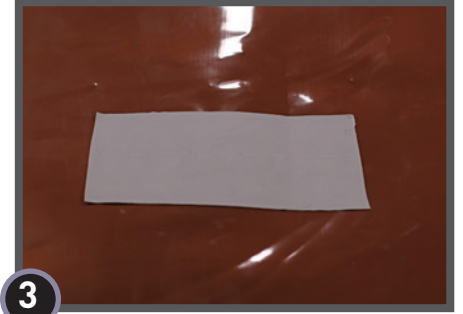
In the event that Drago Wrap is damaged during or after installation, repairs must be made. For smaller holes or slices in Drago Wrap, DragoSeal Tape can be used as noted below.



1 Small hole or slice in Drago Wrap.



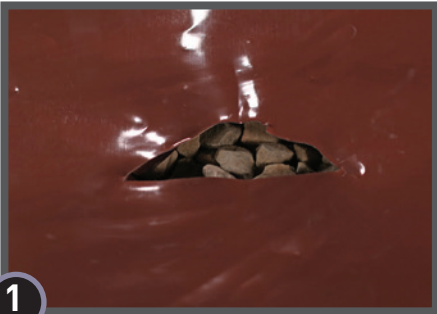
2 Clean area of adhesion.



3 Center DragoSeal Tape over small hole or slice in Drago Wrap. Apply pressure to DragoSeal Tape after application.

Larger Hole

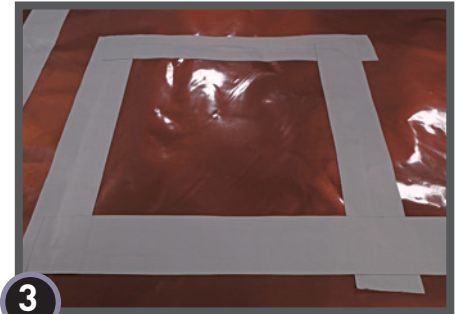
In the event that Drago Wrap is damaged during or after installation, repairs must be made. For larger holes, cut a piece of Drago Wrap to a size and shape that covers any damage by a minimum overlap of 6" in all directions. Clean all adhesion areas of dust, dirt, moisture, and frost. Tape down all edges using DragoSeal Tape.



1 Occasionally there are larger holes in the vapor barrier that require a patch.



2 Measure and cut a piece of Drago Wrap to cover damaged area 6" in all directions. Clean area of adhesion.



3 Seal the patch with DragoSeal Tape.

Sealing Single Pipe Penetration: Minimal Void Space

All penetrations must be sealed. All pipe, ducting, rebar, wire penetrations and block outs should be sealed using Drago Wrap and either DragoSeal Tape, Drago Mastic, or Drago Sealant and Drago Sealant Form. If penetrations are encased in other materials, such as expansive materials like foam, unless otherwise specified, Drago Wrap should be sealed directly to the underlying penetration.



1

Install Drago Wrap around pipe penetrations by slitting/cutting material as needed. Try to minimize the void space created.



2

Pull material over and flatten. Clean area of adhesion where the Drago accessory will be applied.

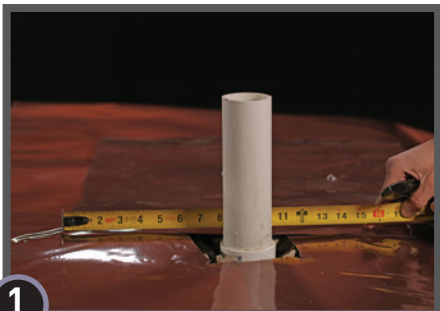


3

If Drago Wrap is close to pipe and void space is minimized then seal around pipe penetration with either DragoSeal Tape (as shown), Drago Mastic or Drago Sealant and Drago Sealant Form.

Larger Void Space Requires Detail Patch

To minimize void space around a larger penetration, a detail patch may be required.



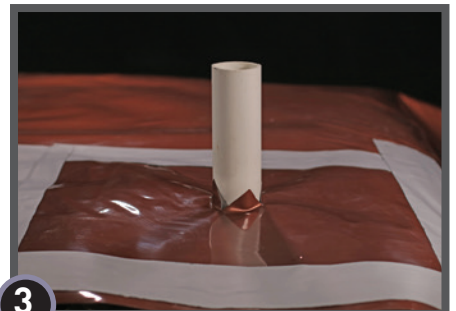
1

Cut a detail patch to a size and shape that creates a 6" overlap on all edges around the void space at the base of the pipe.



2

Cut an "X" the size of the pipe diameter in the center of the detail patch and slide tightly over pipe.



3

Seal all sides of the detail patch with DragoSeal Tape.



4a

Seal around the base of the pipe using DragoSeal Tape.



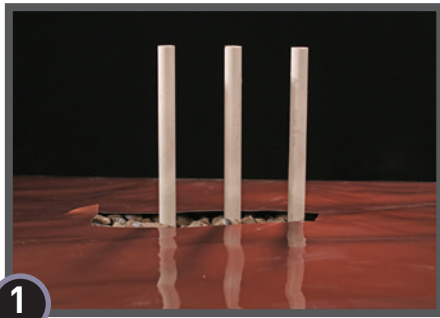
4b

Seal around the base of the pipe with Drago Mastic.
Note: apply using disposable glove, paint brush, or similar.

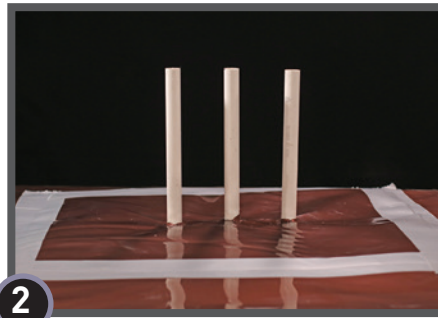
OR

Sealing Multiple Pipe Penetrations: Using Drago Mastic *or* Using Drago Sealant and Drago Sealant Form

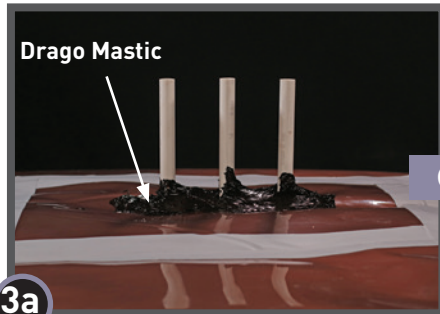
Multiple pipe penetrations in close proximity and very small pipes may be most efficiently sealed using Drago Wrap and Drago Mastic, or Drago Wrap, Drago Sealant, and Drago Sealant Form.



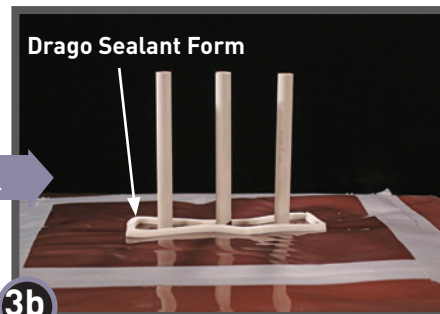
1 Cut a slit the size to accommodate the width of the multiple pipes. Try to minimize the void space created.



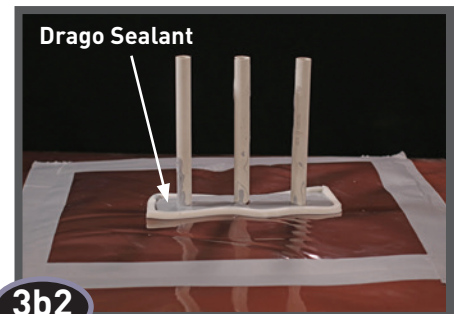
2 Place a detail patch over and around the base of the pipe penetrations as closely as possible, ensuring that it is flush with the base of the penetrations. Seal all sides of the detail patch with DragoSeal Tape.



3a Apply Drago Mastic around the entire perimeter of the group of penetrations and between the penetrations to fill any void spaces present.
Note: apply using disposable glove, paint brush, or similar.



3b Install Drago Sealant Form continuously to Drago Wrap and around the entire perimeter of the group of penetrations and at least 1 inch beyond the terminating edge of Drago Wrap.



3b2 Pour Drago Sealant inside of Drago Sealant Form to create a seal around the penetrations.

Note: If the void space between Drago Wrap and the penetrations is not minimized and/or the base course allows for too much drainage of sealant, a second coat of Drago Sealant may need to be poured after the first application has cured.

Drago Sealant pot/working life is roughly 30-45 minutes.



Avoid Punctures with Beast® Concrete Accessories

To help eliminate the use of non-permanent penetrations in Drago Wrap installation, Stego recommends the use of Beast vapor barrier-safe concrete accessories.

IMPORTANT: Avoid puncturing Drago Wrap with stakes while forming, bracing, and screeding.

Preventing punctures in the vapor barrier.



BEAST® FORM STAKE can be used with **BEAST® FOOT** as part of the Stego vapor barrier-safe forming system which meets ASTM E1643 requirements.



This concrete form stake takes the place of traditional nail stakes for interior forming applications, utilizing SpeedTrack™ Fastening Grooves for unlimited fastener placement.

Note: Refer to Beast Form Stake Installation Guide for detailed usage instructions.



Beast Form Stake is strong enough to withstand a beating during concrete placement while holding its shape. It is easy to remove and reusable for the next job.

Note: Beast Form Stake can be removed once concrete has set sufficiently to hold its shape. Fill and repair any voids in the concrete as necessary once the Beast Form Stake has been removed and strike Beast Form Stake against a hard surface to loosen the concrete buildup.



Locate it and lock it down!

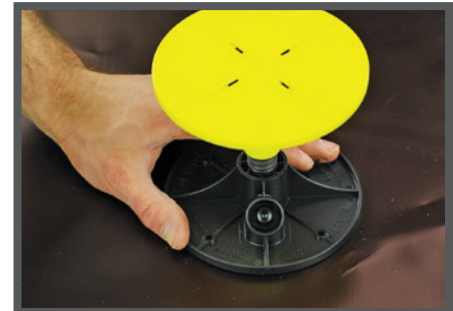
BEAST® HOOK is a **faster, easier** way to set 2x4 overhead screeds. Use Beast Foot and Beast Form Stake and make it a vapor barrier-safe screed system.

No tools are required, just grip the knob to loosen or tighten. Fast, easy, efficient.



BEAST® SCREED is a fixed-elevation, point-to-point guide screed system designed to replace common wet-screed methods.

Improve efficiency and maintain concrete floor levelness with the **BEAST SCREED SYSTEM!**



Set it and forget it. Beast Screed eliminates the need to frequently re-establish grade to ensure floor elevation has not changed during the screeding operation as is typical with traditional wet-screed methods.

Note: Refer to Beast Screed System Installation Instructions for detailed usage instructions.

NOTE: Stego Industries, LLC's ("Stego") installation instructions are based on ASTM E1643 - *Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs*. These instructions are meant to be used as a guide, and do not take into account specific job site situations. Consult local building codes and regulations along with the building owner or owner's representative before proceeding. If you have any questions regarding the above mentioned installation instructions or Stego products, please call us at 877-464-7834 for technical assistance. While Stego employees and representatives may provide technical assistance regarding the utility of a specific installation practice or Stego product, they are not authorized to make final design decisions.



When it comes to building construction, *don't take the vapor intrusion barrier installation lightly.* After all, it is there to protect the building's vital foundation from the threats lurking below the slab. Stego's industry-leading barriers and unrivaled support equip you with the confidence to create resilient foundations for buildings where people work, learn, and gather.



We help keep you up to speed on the latest installation methods.

DISCUSS YOUR PROJECT NEEDS

Have questions? Give us a call.
877-464-7834

stegoindustries.com



INDUSTRY LEADING BARRIERS AND UNRIVALED SUPPORT™

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