

# Ecoflex® Unloading and Uncoiling Instruction Sheet


## Introduction

Uponor Ecoflex® pre-insulated pipe coils are packaged with protective end covers and coiled, then fastened with nylon straps and covered with an outer plastic wrap.

Upon receiving your Uponor Ecoflex shipment, verify the contents match the packing list. If you notice a discrepancy, contact your Uponor representative.

## Delivery Contents

- > Ecoflex pipe
- > Pipe coil wrapping material
- > Product label
- > Protective end covers
- > Packing straps
- > Unloading and Uncoiling Instruction Sheet


 Be sure to protect the pipe coil from sharp objects during transport and storage.

## Unloading

Before unloading, thoroughly inspect all material for shipping damage. Pay close attention to the inside radius of the coil – where damage may occur in the form of a rip or tear in the outer jacket.


**Note:** Refuse any shipment that has product damage and contact your Uponor representative immediately.

Review the product label to verify the type of product and coil length.

 Do not remove outer plastic wrap or nylon straps until you are ready to install.

Always lift coils from the transport vehicle using a wide, 2" strap around the coil or the pallet (if the coil is strapped to one). To avoid damage, do not drop from

truck bed or from similar elevation, or drag the coils over coarse or sharp surfaces. For short distances, manually roll the coil.


 Do not lift coils with sharp objects (including equipment forks). Ensure all lifting devices are covered with foam rubber or other protective material.

## Storage

Store coils in an upright (vertical) position to prevent damage. You may store pipe coils and connection vaults outside. Store all other system parts in a cool, dry area.



## Uncoiling Instructions

 Read both sides of this instruction sheet before uncoiling.

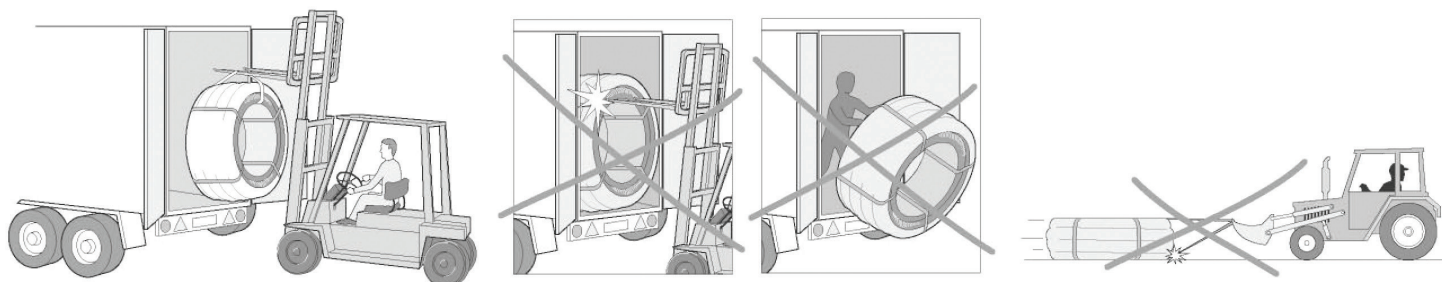
**Note:** Inspect the pipe before uncoiling, and contact your Uponor representative to report any damage.

Ecoflex pipe may be uncoiled and installed directly into the trench depending upon the service pipe, jacket size and ambient temperature.

For best results, uncoil the pipe prior to installation to allow the pipe to relax and become more manageable during installation.

If possible, uncoil pipes adjacent to trenches and allow them to relax for 12 to 24 hours (longer in cold climates).

Note that Uponor recommends allowing at least two extra feet on each end before cutting.



## Uncoiling Small-dimension Pipe and Short Lengths

To install small-dimension or short lengths of Ecoflex pipe, remove the nylon straps. Secure the innermost pipe to a fixed point (such as a building, tree or concrete block). Uncoil the pipe adjacent to the trench by rolling the coil. Make sure the pipe doesn't kink.



Do not remove the exterior plastic wrap during the uncoiling process.



Do not remove the protective end covers until the final connections are completed.

Avoid unrolling or dragging the coil over sharp objects.

## Uncoiling Large-dimension Pipe and Long Coils

Use a mechanical uncoiler to uncoil large-dimension and long coils of Ecoflex.

1. With the coil in its upright position, remove the outer wrap completely from the coil.
2. Adjust the coil so the outermost pipe end is opposite the direction of the uncoiling path and is located at ground level.
3. Secure the inner pipe end to the center of the uncoiler. This is important since the pipe has some tension in it and can spring back causing damage and/or injury.
4. Secure the pipe to a fixed point (such as a building, tree or concrete block).
5. Untie one strap at a time while slowly uncoiling until all straps are removed. Use caution cutting the last strap as the pipe may shift.
6. Uncoil by moving the uncoiler along the trench.



**Caution:** When finished uncoiling or moving to a new location, always re-tie straps — loose pipe may cause injury. Do not remove the protective end covers until the final connections are completed.

## Inspect Pipe for Damage

After uncoiling, carefully inspect the pipe jacket for any damage.

To ensure system integrity, do not install damaged pipe. Installing damaged product without performing the appropriate Uponor repair methods will void the manufacturer's warranty.

For repair methods, refer to the Jacket Repair section of the Uponor Pre-insulated Pipe Systems Design and Installation Manual.

## Installation in Cold Climates

Uponor does not recommend installing Ecoflex in temperatures below 5°F (-15°C).

For cold weather installations, store coils in a heated area or use hot-air fans to warm them in advance.



**Caution:** Do not heat the pipe with a torch or open flame.

## Pipe Bending Radius

Never bend the pipe past the allowed bending radius (shown in **Table 1**). The bending radius corresponds to values achieved in normal jobsite conditions in 68°F (20°C) temperatures during manual installation.

Ecoflex Single		Ecoflex Twin		Ecoflex Potable HDPE	
Pipe Size	Bend Radius	Pipe Size	Bend Radius	Pipe Size	Bend Radius
¾"	10"	1"	20"	1¼"	14"
1"	10"	1½"	28"	1½"	18"
1¼"	12"	1½"	32"	2"	30"
1½"	16"	2"	40"	3"	32"
2"	18"	2½"	48"	4"	48"
2½"	30"				
3"	32"				
3½"	44"				
4"	48"				

**Table 1:** Ecoflex Size and Bend Radius

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