Seal-Wrap™ End Seal

For replacement or repair of casing end seals that are damaged and for new construction. Seal-Wrap is a simple, efficient method of sealing casing ends.

Description:

Seal-Wrap™ is a casing end-seal wrapper consisting of a heavy, woven fiberglass coated with a high dielectric strength butyl mastic wrapped around the end of the casing and on the carrier pipe. It is then strapped in place with stainless steel banding.

Use:

The Seal-Wrap system was designed by Trenton Corporation to enable field personnel to readily replace existing “rubber-boot” type end seals that are damaged prior to installation of casing filler. Seal-Wrap can also be used to reinforce existing “boot” or “compression” type seals. This system also has advantages for new construction applications. Seal-Wrap is a simple, efficient method of sealing the annular space between pipe and casing that does not necessitate absolute centering of the pipe in the casing.

Advantages:

- Carrier does not have to be centered in the casing.
- Covers any size casing up to 42".
- Ideal for preparation of casing for filling.
- Can be installed on existing pipe.

Application Procedures:

1. With a wire brush, clean the last 12” of the casing pipe ends and the first 12” of the carrier pipe to remove loose rust, coating, and dirt. Dry off all surfaces.
2. Brush Seal-Wrap Primer onto the cleaned areas of the carrier and casing to be covered with Seal-Wrap. Let dry until tacky.
3. Place one layer of Double-Faced Adhesive at the edge of the casing and one layer approximately 4” from the end of the casing on the carrier pipe. Remove release paper from the Double-Faced Adhesive. This is the area where the banding will be applied.
4. Measure around outside circumference of the casing to determine length for a single wrap of Seal-Wrap, then add 6” to ensure that Seal-Wrap is cut long enough to allow for a 6” overlap. Apply one wrap of Seal-Wrap around the carrier and casing end. One edge of the Seal-Wrap should be aligned with the farthest edge of the Double-Faced Adhesive on the casing. Remove release paper as you apply the Seal-Wrap.
5. Band securely in place, using one band and two buckles on both casing and carrier in the middle of the Double-Faced Adhesive. Use the banding tool to tighten bands until flush with the surface of the Seal-Wrap, then tighten both buckles with the supplied hexagonal wrench.
6. Cover buckles with small squares (approx. 6” square) of Double-Faced Adhesive to prevent cutting of next layer. Remove release paper from Double-Faced Adhesive.
7. Apply a continuous double wrap of Seal-Wrap directly over the first wrap, making sure to start the second wrap in a different position than the first. Remove release paper as you apply the Seal-Wrap. (To determine the length of Seal-Wrap, double the casing circumference, then add 6” for overlap.)
8. Apply one wrap of Double-Faced Adhesive centered over the edge of the casing end and one wrap centered over the edge where the Seal-Wrap meets the carrier pipe. Do not remove release paper from the Double-Faced Adhesive.
9. Place two bands on the carrier pipe on either side of the first band. The band closest to the end of the casing should be over the Double-Faced Adhesive applied in Step 8.
10. Place two bands on the casing pipe on either side of the first band. The band closest to the end of the casing should be over the Double-Faced Adhesive applied in Step 8.
11. Tighten all bands into place so they seat securely into the Double-Faced Adhesive and Seal-Wrap.
12. Let the seals cure overnight.
13. Apply up to 2 psi into top vent, then check for a strong airflow escaping out the lower end vent. This confirms there are no restrictions between vents.
14. Close off the lower end vent, pressure casing to up to 2 psi, and monitor for 15 minutes. If any air pressure holds, the test is complete and the casing is prepared. It is highly recommended to backfill before testing above 2 psi.
15. If casing is to be filled with wax, it is highly recommended/ critical that the ends of the casing are backfilled. The backfill will help support the seals, and help stop any minor leaks.

Specifications:

Seal-Wrap Wrapper

Composition.....Fiberglass fabric coated with butyl mastic
Thickness.....40-60 mils
Dielectric Strength .....300 volts/mil
Water Absorption.....03%

Seal-Wrap Primer

Quick-drying butyl mastic primer

Double-Faced Adhesive

Composition.....Butyl and synthetic resin
Dielectric Strength .....300 volts/mil

Packaging:

Seal-Wrap: 24" wide x 36' long
Seal-Wrap Primer: 1 quart cans.
Approximate coverage 50 sq.ft. per 1 quart
Double-Faced Adhesive: 6" x 50' rolls
Banding Equipment: ¾" stainless steel band (100 ft./roll), ¾" screw-lock buckles (25/box), and Banding Tool

Seal-Wrap Material Requirements for One Casing End:

Casing Diameter	Double-Faced Adhesive (Feet)	Primer (Square Feet of Coverage)	Seal-Wrap Wrapper (Feet)	Stainless Steel Band (Feet)
4"	2	2	5	8
6"	4	3	6	11
8"	5	4	8	14
10"	6	5	9	17
12"	7	6	11	20
14"	8	7	12	23
16"	9	8	14	27
18"	10	9	16	30
20"	11	10	17	33
22"	12	11	19	36
24"	13	12	20	39
26"	14	13	22	42
30"	16	16	25	49
34"	18	18	28	55
36"	19	19	30	58
40"	21	21	33	64
42"	22	22	34	67

6 buckles required per end


Seal-Wrap Primer being applied to the cleaned area of the casing.


First layer of Double-Faced Adhesive is applied to the casing, Seal-Wrap Primer being applied to the carrier.


First layer of Double-Faced Adhesive is applied to the carrier.


One wrap of Seal-Wrap around the casing end.


Seal-Wrap banded securely in place and buckles being covered with small squares of Double-Faced Adhesive.


A second continuous wrap of Seal-Wrap applied directly over the first wrap.


Last wrap of Double-Faced Adhesive with release paper not removed, banding begun.


Completed installation showing wrapping secured with two bands.

Corporate Office: 7700 Jackson Road ■ Ann Arbor, MI 48103 USA ■ (734) 424-3600 ■ Fax: (734) 426-5882 ■ trenton@trentoncorp.com
Export/Houston Office: 1880 S. Dairy Ashford Road ■ Suite #697 ■ Houston, Texas 77077 USA ■ (281) 556-1000 ■ Fax: (281) 556-1122 ■ tweber@trentoncorp.com
European Office: 8, rue de Berri ■ Paris, France 75008 ■ +33 (0) 1 42 99 95 78 ■ Fax: +33 (0) 1 42 99 95 79 ■ europe@trentoncorp.com
www.trentoncorp.com