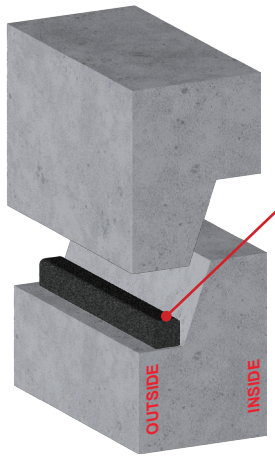
Sealant Placement Location

Manholes & Septic Tanks

Press-Seal CORPORATION

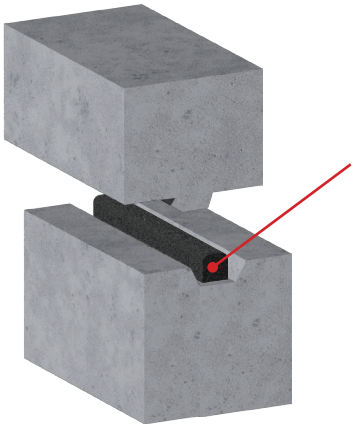
FIGURE 1:



The recommended location for sealant in this style joint is shown to the left.

Recommended to place sealant on the bottom flat portion on the inside side of the joint as close to the corner as possible, leaning against the inclined surface.

Tongue & Groove Joint



The recommended location for sealant in this style joint is shown to the left.

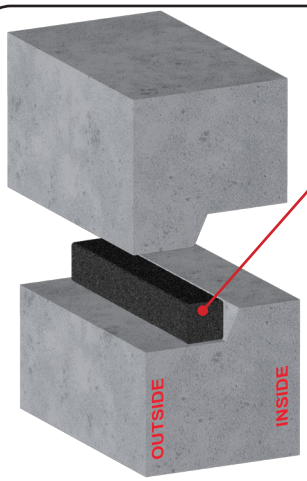
Recommended to place sealant on the flat portion of the groove being centered inside the groove as best as possible.

Tongue & Groove Joint

The recommended location for sealant in this style joint is shown above.

Recommended to place sealant as close to the gasket confinement step as possible. Leaning against the step is okay.

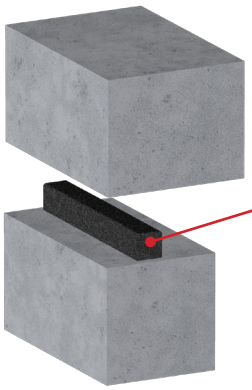
Single Offset Joint



The recommended location for sealant in this style joint is shown to the left.

Recommended to place sealant on the top flat portion on the inside side of the joint as close to the edge of the groove where the joint taper begins.

Ship Lap Joint



The recommended location for sealant in this style joint is shown to the left.

Recommended to place sealant on the flat portion as centered on the wall as possible.

Butt Joint

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Sealant Placement Location

Reinforced Concrete Pipe

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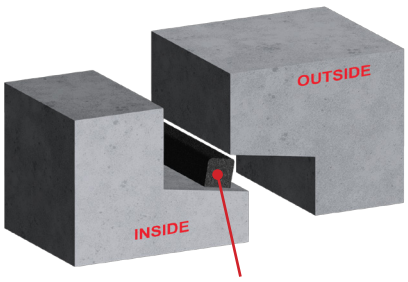
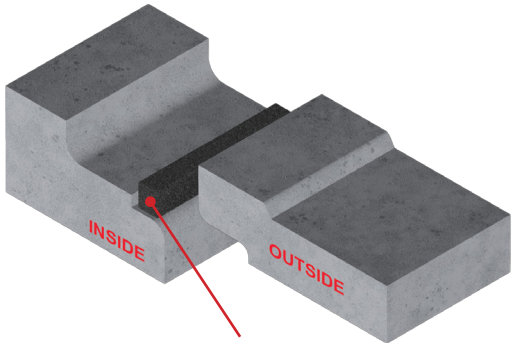
FIGURE 2:



The recommended location for sealant in this style joint is shown above.

Recommended to place sealant towards the leading edge of the spigot.

Tongue & Groove Joint



The recommended location for sealant in this style joint is shown above.

Recommended to place sealant as close to the gasket confinement step as possible. Leaning against the step is okay.

Single Offset Joint

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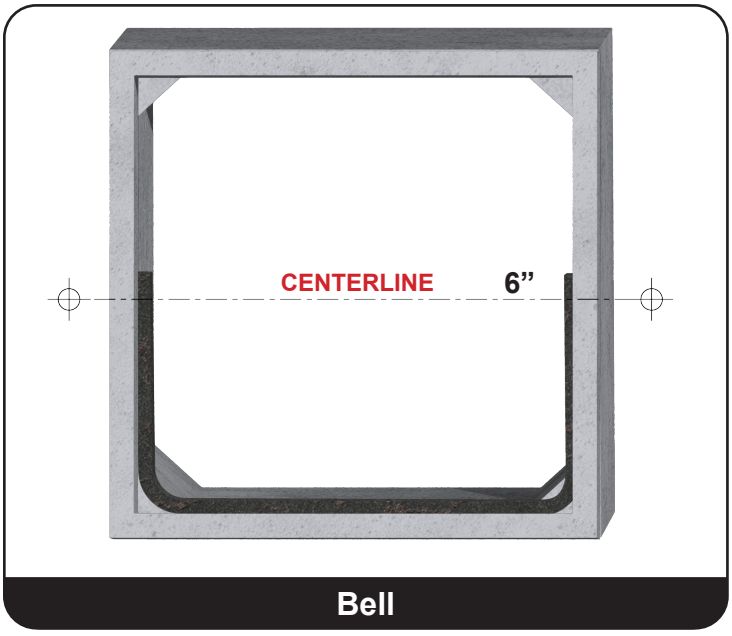
Sealant Placement Location

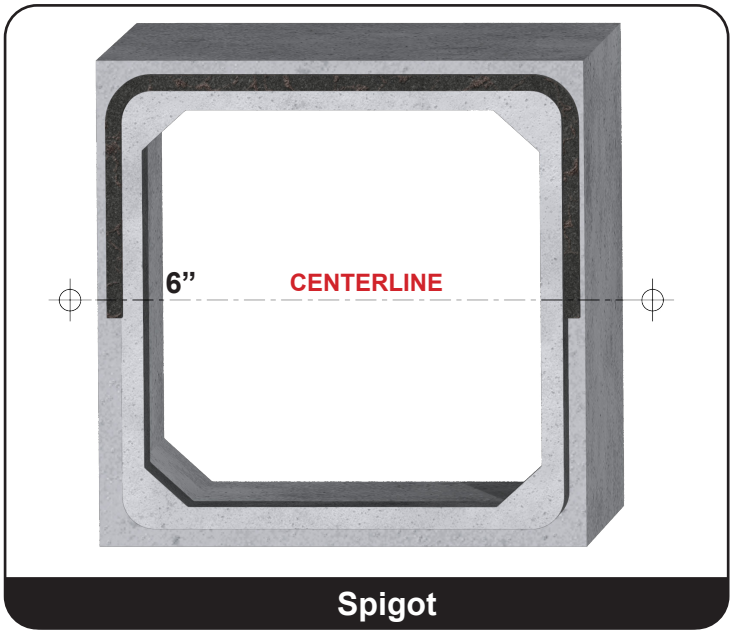
BOX CULVERTS

Press-Seal CORPORATION

FIGURE 3:



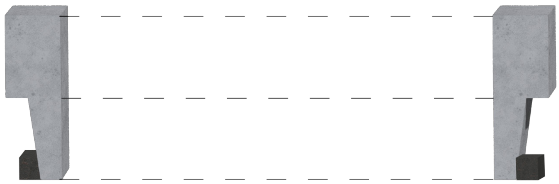
Bell



Spigot

**Note: EZ #4 Primer can be used to improve sealant adhesion to the joint*

Bell



Spigot

Sealant Placement Location (Box Culverts)

See figure 3 for option #1 for a typically recommended placement of butyl rope for box culverts. This installation method can only be used for soil or silt tight applications. The recommended best practice is to apply the butyl rope sealant in two different locations:

- On the bell at the interior corner of the angled surface
- On the spigot at the front of the angled surface

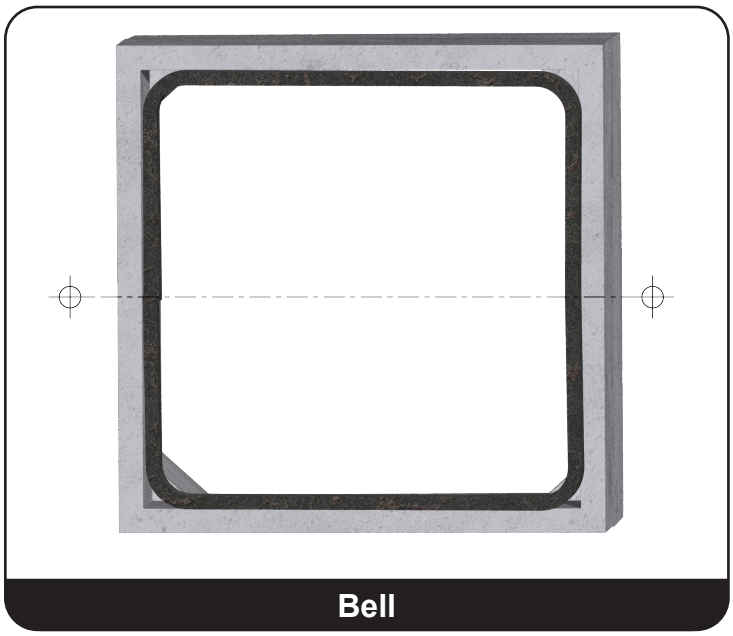
This methodology helps fight sagging when material is applied to the bottom of the spigot. It is typically recommended to have the strips of butyl extend approximately 6” past center on both sides to ensure roughly 12” of overlap so that the two sides will join during the homing process. Another general recommendation is to ensure that the end of a strip is a minimum of 12” from a corner in the joint (see figure 5).

Sealant Placement Location

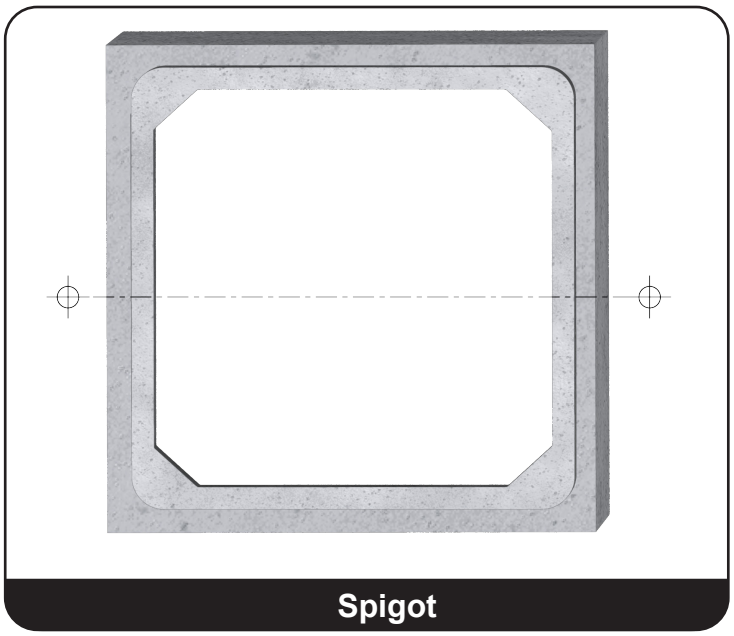
BOX CULVERTS

Press-Seal CORPORATION

FIGURE 4:

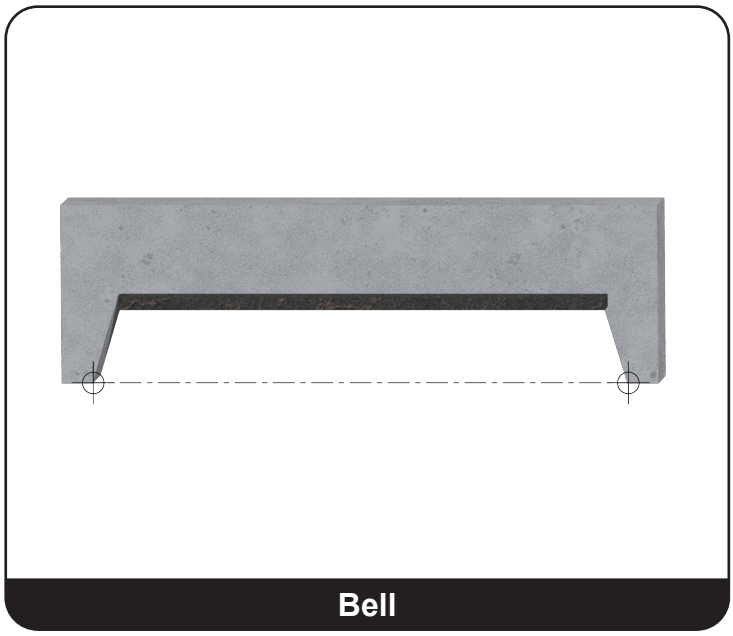


Bell

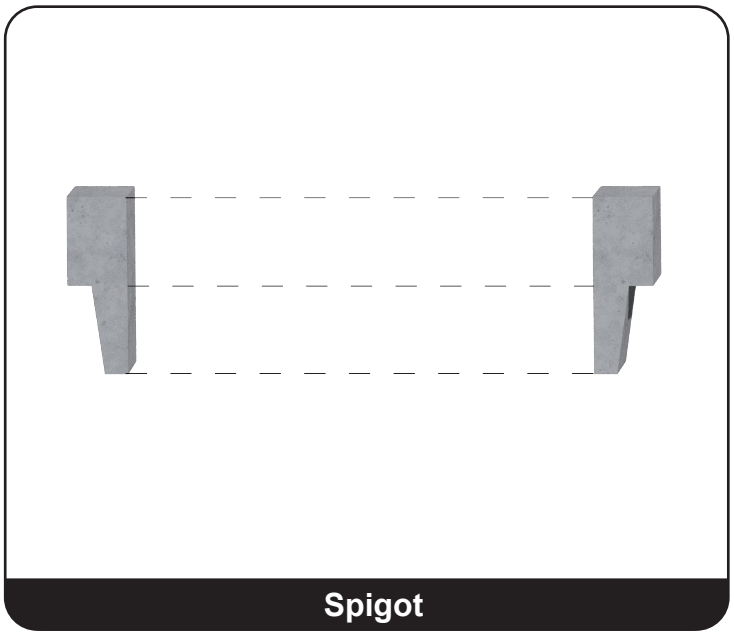


Spigot

**Note: EZ #4 Primer can be used to improve sealant adhesion to the joint*



Bell



Spigot

Sealant Placement Location (Box Culverts)

See figure 4 for option #2 for another typically recommended placement of butyl rope for box culverts. This option should be used for any applications that require higher performance than soil or silt tight applications. For higher performance requirements, additional butyl can be used on each side of the bell and spigot. Additionally, an external joint wrap or coupler can be applied to the exterior side of the box culvert joint after homing (see figure 7).

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Sealant Placement Location

BOX CULVERTS

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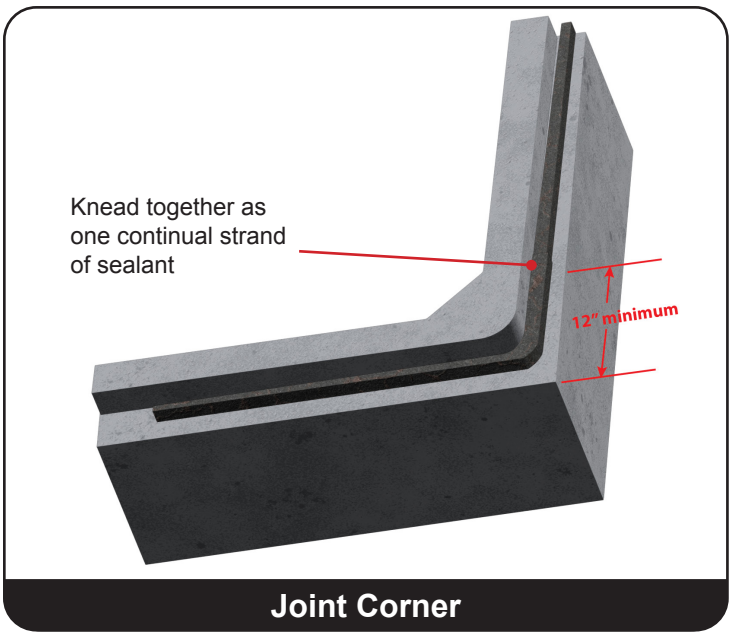
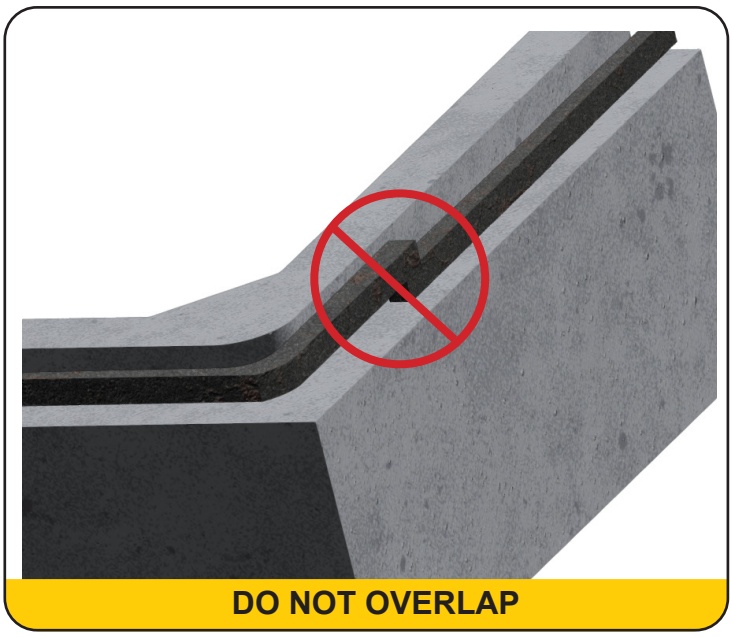
FIGURE 5:



Joint Corner



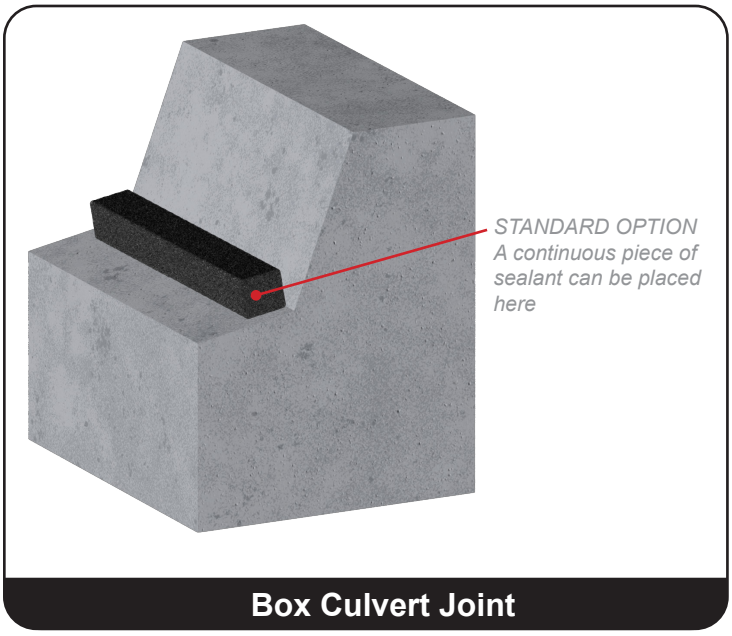
DO NOT OVERLAP

Please note: knead together a minimum of 12" away from any corner.

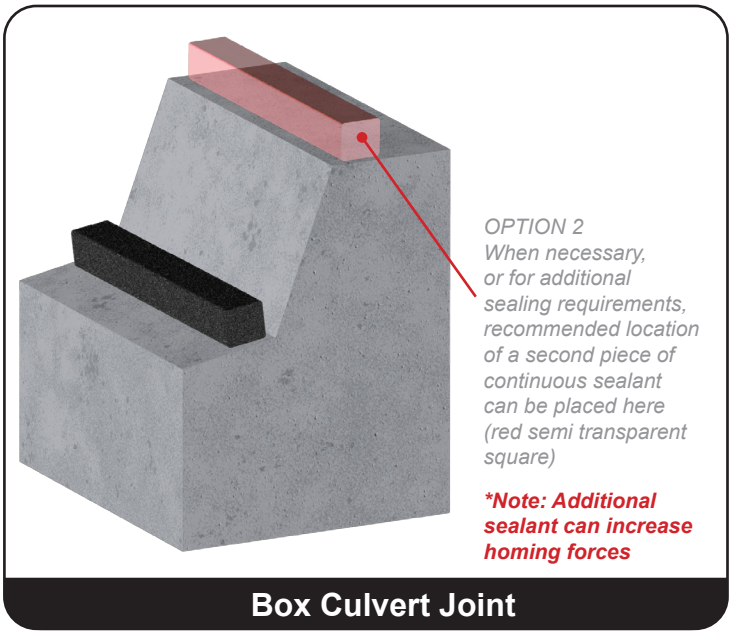
Sealant butt ends should be kneaded together as one continual length of sealant.

OVERLAPPING SEALANT COULD HINDER COMPRESSION OF THE JOINT WHEN HOMING

FIGURE 6:



Box Culvert Joint



Box Culvert Joint

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Sealant Placement Location

BOX CULVERTS

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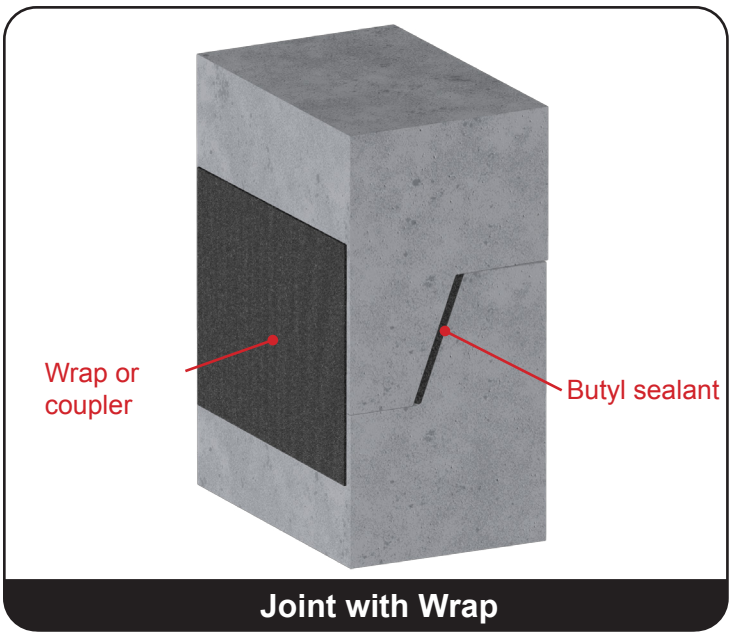
FIGURE 7:



Joint with Wrap

Primer/Adhesive

It is typically recommended to utilize a primer and/or adhesive prior to applying the sealant rope to the joint to obtain optimum performance.

The better the sealant can adhere to the joint walls, the less likely it is that water can seep through.

Sealant can and will adhere to a clean concrete surface, but the addition of adhesive and/or primer can increase adhesion and result in better performance.

Concrete Surface Preparation

Recommended procedure for optimal sealant performance

1. Dry joint surface if wet. (Joint surface must be dry.)
2. Clean all dirt, sand, rocks, mud, etc. from both sides of the joint. Joints should be clean.
    - Sealant sticks to anything on the surface of the joint. If joints are covered with dust, dirt, or debris sealant will adhere to that instead of the concrete.
3. For optimal performance, it is recommended to apply a primer to improve adhesion. If primer is used, allow time to dry before applying sealant.

Butyl Application

Recommended procedure for optimal sealant performance

1. Join the sealant into one continuous strand by kneading the ends together (Figure 5).
    - **DO NOT** stretch the sealant while placing onto the joint.
2. To complete the sealant ring, cut off the excess sealant with a knife or sharp object and butt ends together.
    - **DO NOT** overlap the ends of the sealant (Figure 5).
3. Remove the protective release paper from the sealant ring.
    - Be sure to keep the sealant clean and free of dust, dirt, or debris
4. Assemble the joint.
    - Align structure section as straight as possible.
    - When the structure section is completely and correctly joined, the butyl sealant will flow into a solid-pack and uniformly fill the annular space between the two surfaces of the joint.

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