

Expansion Joint Systems

Splicing/Repair of Steelflex Strip Seals

Responsibility

It is the responsibility of installer to understand all the requirements of this document before attempting to splice Steelflex Strip Seals.

- Failure to perform any of the steps outlined in this document will result in underperformance or failure of the compression seal at the splice.

It is the responsibility of The D.S. Brown Company to provide written instructions regarding the proper splicing technique for Steelflex Strip Seals.

It is the responsibility of The D.S. Brown Company to provide technical support, training, and quality control testing as requested by the installer, contractor, or owner of the project.

- Technical support, training, and quality control testing is available for a fee.

Product Description

A splice/repair kit consists of the following:

- A 10" W x 6' L of polychloroprene sheeting
- One bottle Delastiseal 1521 splicing adhesive
- One tube Sikaflex 15LM construction sealant

Equipment

Equipment required includes:

- Wire brush
- Utility knife
- Large knife or saw suitable for cutting Steelflex Strip seal
- Small rubber roller

Installation

When installing Steelflex strip seal where a splice is needed the first phase of installation should be installed up to three feet of where the splice is to be made on each side.

The remaining three feet should be installed with no 1520 adhesive.

- Installing the last three feet of the seal with adhesive will make splicing more difficult.

The second phase of the installation should be made up to the splice.

- The pieces should not overlap but butt up to each other.
- Make sure that the ends of seals are cut square to ensure a tight splice.

Completely cover the face of both seals with 1521 adhesive and install the remaining end of seal. You must work fast as the 1521 adhesive is a quick setting adhesive.

- The seals will fit tight against each other. Compress the seals into the joint and work them with the installation tools to even out the splicing area.
- To repair an area that just has a small tear in it. Fill the torn area with the 1521 adhesive or if the torn area is a little larger, you may need to use a little bit of the 15LM construction sealant.
- Cut the polychloroprene sheeting 8 inches long by a width equal to the joint opening plus 2 inches.

Use the wire brush to abrade the top of the seal 4 inches on either side of the splice.

- The wire brush will remove any 1520 adhesive on the top of the seal at the splicing area.

Apply 1521 adhesive to the polychloroprene sheeting and place the sheeting squarely over the splice.

Using the rubber roller, work the sheeting into the seal, making sure that it makes full contact with the placed seal.

- Care should be taken to ensure that the sheeting is pressed into any depressed areas of the seal. The sheeting is to remain flush with the seal across the splice.

Allow the 1521 adhesive to dry for 30 minutes and trim off the excess sheeting at the edges of the joint.

Apply the Sikaflex 15LM sealant to all edges of the polychloroprene sheeting to complete the splice.

Complete installation of the seal (with 1520 adhesive) once the Sikaflex has cured.