

Bridge Compression Seal - “BR” Seal Installation Procedures

1. Preparatory Work

The expansion joint opening shall be a consistent width along its entire length, or be within the established width dimensions for the specified seal for the particular project.

Edge spalling, sharp projections and concrete voids shall be repaired prior to proceeding with the installation of the Iso-Flex BR Series Compression Seal. Any repair materials used should be allowed to fully cure per manufacturer’s recommendations before the installation is begun.

Slightly chamfered or rounded top corners of the concrete at the expansion joint is required to help prevent spalling and damage to the concrete edges during subsequent use.

The Iso-Flex BR Compression Seal shall be unrolled and allowed to lie in a relaxed position. Once relaxed, the seal should be measured and cut to the desired length. When measuring, be careful not to pull or stretch the seal.

If necessary, butt splices of the Iso-Flex BR Compression Seal can be completed in the field by using cyanoacrylate glue (Super Glue). First, make sure the ends of the seal to be spliced have straight cuts. Abrade the end webs of the two pieces to be spliced. This can be accomplished with an electric grinder, or with hand tools. Once the seal is prepared, apply a bead of cyanoacrylate glue to the abutting surfaces. Press the two seals together and apply pressure for 2 minutes. Do not move, bend, stretch or stress the splice before the recommended bond time. Allow the splice to have 30 minutes to cure out before carefully installing into the joint opening.

The expansion joint opening should be cleaned to remove any laitance or loose material. The concrete interfaces receiving the compression seal should be sandblasted if possible.

2. Installation

Tape both sides of the top edges of the concrete at the expansion joint gap. Wipe the sides of the seal with a clean, absorbent rag soaked with Toluene.

Apply a thin coat of the Iso-Flex Lube-Adhesive to the sidewalls of the expansion joint gap, starting at the top of the gap going down to a depth equal to the depth of the side of the seal.

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Also, apply a thin film of the same Iso-Flex Lube-Adhesive to the sidewalls of the seal.

Starting at one end of the seal, gradually compress and push the seal into the joint gap and position it so the top of the seal is approximately $\frac{1}{4}$ " below the adjoining concrete surfaces.

3. Clean Up

Using a clean rag soaked with an organic solvent, wipe the exposed surfaces of the seal until clean.

Remove and collect the joint edge tape along with the used containers and rags. Properly dispose of all waste materials.

Open to traffic after the Lube-Adhesive has cured, Typically 24 hours.

