

Compression Seal Expansion Joint 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. Refer to LymTal International Drawing No. 1070 for specific sizing information.

Edge spalling, sharp projections and concrete voids shall be repaired prior to proceeding with the installation of the Iso-Flex “C” 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 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 Compression Seal can be easily completed in the field by using a heat fusing process. First, make sure the ends of the seal to be spliced have fresh, straight cuts. After the Iso-Flex Splicing Iron is pre-heated (400°F), hold it between each end of the joint. When each surface shows about a 3/16” bead of melted material quickly remove the splicing iron and hold the joint ends together until they bond (about 3-5 minutes). Cold water may be sprayed on the joint to expedite cooling. Do not move, bend, stretch or stress the splice before the recommended bond time.

The expansion joint opening should be cleaned to remove any laitance or loose material.

2. Installation

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

The Iso-Flex Lube-Adhesive is a one-part urethane product. The Lube-Adhesive is typically provided in 20 oz. foil sausage packs. The sausage of Lube-Adhesive can be loaded into a bulk caulking gun and applied using the bulk gun. To do so, apply a 3/8” bead of the Lube-Adhesive to each of the sidewalls of the expansion joint gap. Consumption varies by size of seal, but for a typical 3” seal, application

of a 20 oz. sausage should cover approximately 20 Ft of joint, both sides. Then, using a margin trowel spread the Lube-Adhesive on the joint gap surface down to a depth equal to the depth of the side wall of the seal. This will vary depending on seal size.

Starting at one end of the seal length, insert one of the sides of the seal into the joint gap. This will have the seal initially at an angle into the joint. Then gradually compress and push the other side of the seal into the joint gap and position it so the top of the seal is approximately 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 immediately.

