

Iso-Flex Hydroseal Installation Procedures

General Instructions

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. Also ensure that the depth of the joint is sufficient for the supplied material. Iso-Flex Hydroseal is an uncompressed product and is sized to be larger than the expansion joint gap.

Edge spalling, sharp projections and concrete voids shall be repaired prior to proceeding with the installation of the Iso-Flex Hydroseal. Any repair materials used should be allowed to fully cure per manufacturer's recommendations before the installation is begun. The concrete surfaces shall be clean and free of oil, grease, rust and other foreign materials that would inhibit bonding of the adhesive materials.

The Iso-Flex Hydroseal is packaged in 5 Foot stick lengths and boxed bundles. To ensure a proper fit add ½" to the joint length and cut Hydroseal as determined.

Hydroseal is shipped along with epoxy gel adhesive. When utilizing the epoxy gel, mix the part A & B components and apply a bead of material approximately ½" from the exposed surface along the length of each interface. Install the Hydroseal by placing the seal at an angle into the joint gap, then compress the opposing side of the joint seal using either a putty knife or by hand, slipping the seal into the joint gap. Note that vertical joints should be started from the bottom. Continue along the joint length- until complete. Recess the surface of the seal by ¼" or as desired for aesthetic reasons.

It is always important to add a small amount of extra material to the length of the joint gap to ensure a watertight seal.

Splicing of the stick lengths is accomplished by cutting to length, and heat welding or buttering the interface with a silicone or polyurethane sealant and then forcing the spliced connection together.

Heat Welding

The procedure to follow when heat welding the Hydroseal joint system involves the use of a standard Iso-Flex Heat Splicing Iron.

It is recommended that changes of plane such as on treads and risers be done such that the butt end of one piece is welded to the top or bottom face of the connection piece. This is done rather than mitering of the connection. Stick pieces of the seal may also be heat welded following this same procedure to follow.

Steps for Heat Welding

1. Begin the process by preheating the Heat Splicing Iron to 500 degrees.
2. The adjoining pieces of the Hydroseal material should have clean straight cuts. The cuts should be smooth and flat with no tearing of the material.
3. To effect the splice, hold the Hydroseal against the Heat Iron with moderate pressure. Hold the faces to be adjoined for 30 seconds (ONLY). It is easy to overheat the material and this will lead to distortion of the shape.
4. Remove the heated pieces of Hydroseal and align while applying moderate pressure against each other.
5. Allow to cool for one minute before releasing pressure.
6. It is recommended that a form be made of wood or by the use of concrete blocks that will contain the shape as the two pieces are pressed against each other. This will help the seals to hold their shape.

The photo below will depict the method and appearance of splicing.



Rev. 0613