

Iso-Flex Precom “Hydroseal-P” 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.

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

All Hydroseal-P installations utilize Epoxy Bonding Adhesive. In order to achieve proper bond to the concrete substrate it is required to sandblast the concrete surface. If sandblasting is not possible a thorough mechanical grinding is required. **DO NOT WIRE BRUSH!**

Concrete Surface Conditions Shall be:

- New concrete shall have a minimum of 28 days cure.
- Remove any laitance or weak surface layer from concrete surface.
- Surface Profile shall be a CSP-3 to CSP-5 per International Concrete Repair Institute.
- Moisture content of the concrete shall be 3% or less.

(In the event you have a steel surface interface it is required to sandblast or grind to “white metal”.)

Once the surface has been abraded it must be solvent wiped. The solvent wipe should occur immediately before the actual installation of the Hydroseal-P seal. Once the joint interfaces are prepared and solvent wiped, the top surface should be taped off in order to maintain a neat and clean surface.

The Iso-Flex Hydroseal-P is packaged in 5 Ft stick lengths. To ensure a proper fit add ½” to the joint length and cut Hydroseal-P as determined. When initiating work lay out the stick-packaged material by placing the sticks along the joint opening.

Prior to installation of the Hydroseal-P seal apply the mixed Iso-Flex Epoxy Bonding Adhesive to the joint gap faces. *Be careful to not contaminate the upper concrete interface area.* The epoxy is mixed at a 1:1 ratio. This will ensure a proper long term adhesion. Once the epoxy is mixed, trowel a film on to the concrete interface. Also apply the epoxy adhesive to the lower ½ of the Hydroseal-P seal sidewalls. Compress and insert the stick into the joint gap using

a putty knife to clean up excess epoxy left on the surface. Install the Hydroseal-P seal into the gap to a consistent depth, approximately ¼” minimum below the top surface.

During installation it is important to push the Hydroseal-P seal into place. DO NOT pull on the seal during the installation process.

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

Butt Splice Treatment:

As each 5 foot stick length of material is being installed into the joint it is necessary to apply a film of the provided “Flexible Seal” sealant to the end mating with the previously installed piece. The sealant should be spread evenly throughout the butt end of the foam portion of the seal.

The ends of the abutting seals should then be pressed firmly together as installed. Do not allow the Flexible Seal sealant to come in contact with the factory applied polysulfide sealant.

As the final field applied beads of polysulfide sealant are placed along the length of the joint at the concrete interface, a 1/8” bead of polysulfide should also be placed at the butt joint surface along the area of the factory applied polysulfide sealant.

Field Applied Sealant Bead:

Hydroseal-P is provided with a factory applied polysulfide sealant on the exposed surface. Once the seal is in place, it is necessary to place a ¼” bead of sealant along each side of the installed joint at the interface to the concrete substrate.

Complete the installation with a ¼” bead of polysulfide sealant along the interfaces of the installation as well as at each splice location adjoining each 5 Ft stick of material. When installation is made against metallic substrates it is necessary to sandblast to “white metal” prior to application of the Primer 5050. Consult LymTal for further information.

Priming of the concrete interface is only necessary when involved with submerged installations. This priming is accomplished with Thiokol 5050, 2-part epoxy primer. Refer to LymTal installation procedures for “Submerged Installations” as necessary.

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Iso-Flex Precom “Hydroseal-P” Installation Procedures for Submerged Conditions

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.

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

All Hydroseal-P installations utilize Epoxy Bonding Adhesive as well as an epoxy primer for the field applied polysulfide sealant beads. In order to achieve proper bond to the concrete substrate it is required to sandblast the concrete surface. If sandblasting is not possible a thorough mechanical grinding is required. **DO NOT WIRE BRUSH!**

Concrete Surface Conditions Shall be:

- New concrete shall have a minimum of 28 days cure.
- Remove any laitance or weak surface layer from concrete surface.
- Surface Profile shall be a CSP-3 to CSP-5 per International Concrete Repair Institute.
- Moisture content of the concrete shall be 3% or less.

(In the event you have a steel surface interface it is required to sandblast or grind to “white metal”.)

Once the surface has been abraded it must be solvent wiped. The solvent wipe should occur immediately before the actual installation of the Hydroseal-P seal. Once the joint interfaces are prepared and solvent wiped, the top surface should be taped off in order to maintain a neat and clean surface.

The Iso-Flex Hydroseal-P is packaged in 5 Ft stick lengths. To ensure a proper fit add ½” to the joint length and cut Hydroseal-P as determined. When initiating work lay out the stick-packaged material by placing the sticks along the joint opening.

Prior to installation of the Hydroseal-P seal apply the mixed Iso-Flex Epoxy Bonding Adhesive to the joint gap faces. *Be careful to not contaminate the upper concrete interface area where the primer and field bead of polysulfide will be applied.* The epoxy is mixed at a 1:1 ratio. This will ensure a proper long term adhesion. Once the epoxy is mixed, trowel a film on to the concrete interface. Also apply the epoxy adhesive to the lower ½ of the Hydroseal-P seal sidewalls.

Insert the stick into the joint gap using a putty knife to clean up excess epoxy left on the surface. Compress and install the Hydroseal-P seal into the gap to a consistent depth, approximately ¼” minimum below the top surface.

During installation it is important to push the Hydroseal-P seal into place. DO NOT pull on the seal during the installation process.

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

Butt Splice Treatment:

As each 5 foot stick length of material is being installed into the joint it is necessary to apply a film of the provided “Flexible Seal” sealant to the end mating with the previously installed piece. The sealant should be spread evenly throughout the butt end of the foam portion of the seal.

The ends of the abutting seals should then be pressed firmly together as installed. Do not allow the Flexible Seal sealant to come in contact with the factory applied polysulfide sealant.

As the final field applied beads of polysulfide sealant are placed along the length of the joint at the concrete interface, a 1/8” bead of polysulfide should also be placed at the butt joint surface along the area of the factory applied polysulfide sealant.

Field Applied Sealant Bead:

Hydroseal-P is provided with a factory applied polysulfide sealant on the exposed surface. Once the seal is in place, it is necessary to prime and place a ¼” bead of sealant along each side of the installed joint at the interface to the concrete substrate.

Priming of the concrete interface is accomplished with the provided Thiokol 5050, 2-part epoxy primer. The provided quart units are intended to cover 500 Ft of joint (both sides). This is a 1:1 ratio mix and only amounts required should be mixed at the time of use.

The 5050 Primer should only be applied to the narrow strip of concrete to be receiving the polysulfide bead. DO NOT allow the primer to come in contact with the factory applied polysulfide sealant. It is recommended that the surface of the seal as well as the concrete interface be taped off to protect adjacent areas.

Mix the Primer 5050 by pouring equal amounts of Part A (Resin) and Part B (Hardener) into a pail. Mix by hand for a minimum of 2 minutes. Ensure that the product is fully mixed with no unmixed material on the edges of the pail.

Using a disposable paint brush, apply the primer to the concrete surface. The primer must be applied in temperatures over 40°F. It must be allowed to cure for a minimum of 2 hours (at 70°F.) before the sealant bead is applied. Primer curing will be extended at lower temperatures.

Complete the installation with a ¼” bead of polysulfide sealant along the interfaces of the installation as well as at each splice location adjoining each 5 Ft stick of material. When installation is made against metallic substrates it is necessary to sandblast to “white metal” prior to application of the Primer 5050. Consult LymTal for further information.

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