

# CR-Series

## INSTALLATION INSTRUCTIONS

### Material Preparation

1. Size block-out recess to 3/4" deep by 3-1/2" wide receiver on each side of the joint opening.
2. Block-out receiver should be flat and level
3. Deviations, spalls and irregularities should be addressed and repairs made in compliance with the manufacturer's specification.
4. Weather conditions should be dry, no moisture (rain or water in block-out), temperature conditions 45° F to 90° F. **Substrate** is to be 50 degrees or higher for installation.

### Storage Conditions

1. Store at 40°-90° F (5°-32° C). For best results, condition material to 65°-80° F (18°-27° C) before using.

### Material Installation

1. Sandblast entire block-out recess surface.
2. The use of duct tape and protective paper adjacent to the block-out recess is highly recommended. This serves to protect the deck surface from accidental spillage and the tracking of liquid materials onto the deck surface. Install the CR-membrane into joint opening. Assure that the seal is completely seated in the joint opening.
3. Be sure that the wings of the seal are laying flat on the concrete recess surface. If the wings are bent up, lightly apply heat, causing them to lay flat. The use of a common weed burner and a propane tank should be used to accomplish this task.
4. To mix the Polycrete 2020 bedding mix, pour part "B" into part "A", mixing thoroughly. You may load the material into a bulk caulk gun. Place a 1" bead of Polycrete 2020 bedding mix to the area *under the corner of the wing and the seal body*. Then push the wing of the seal into the bedding, allowing material to "ooze" up through the holes in the seal. Spread out the remainder of the Polycrete 2020 to cover the entire recess surface including the vertical wall leg of the recess.



## Material Installation

Wet to wet. Immediately after the bedding material is placed and you're assured that the wings of the seal are flat and firmly bedded down. Mix and place the Polycrete 1600 header material over the top of the 2020 bedding while it is still wet.



5. Pour the measured proportions of Polycrete 1600 (Parts A & B) into the 5 or 6 gallon mixing pail. Thoroughly mix the two components, approximately 1 minute. Begin to add sand (Part C) into the resins while the mixer is turning. It should take a minute to gradually add the sand to the mix. Make sure that all the sand particles are covered; there should be no sand pockets in the mix.
6. Move the pail to the expansion joint and pour the material over the wings of the seal while the Polycrete 2020 is still wet. Take care not to overfill the joint recess. Overfilling of the recess wastes time and causes the excess poured material to be re-handled. This extra motion will take up precious placement time. At the termination ends of each pour, taper or ramp the Polycrete 1600 to receive the next batch. **TIP - Use a wood float trowel, moving in a circular motion helps to flatten the surface of the Polycrete. Ramp the termination point to receive the next batch.**
7. Use the tip end of the trowel to push the header mater into the side of the body of the seal. Work the material by compacting it into the joint recess and along the edge of the seal. Finish troweling the top of the material to suit your desired texture. **TIP - As the final finish trowel process is underway, dip the trowel into xylene, this "wetting" will bring up the resins resulting in a desirable smooth flat finish.**



## Material Installation



8. Repeat the process until the expansion joint is completely filled on both sides. After the expansion joint is completed, carefully remove the protective duct tape and protective paper. Do not leave this material in place during the cure, as it will not be easily removed if allowed to set overnight. Allow the material to develop full cure overnight or until header material is hard to the touch.

The finished effect is a flat smooth joint surface that will allow for the passage of vehicular and pedestrian traffic while providing a waterproof barrier to the area below.

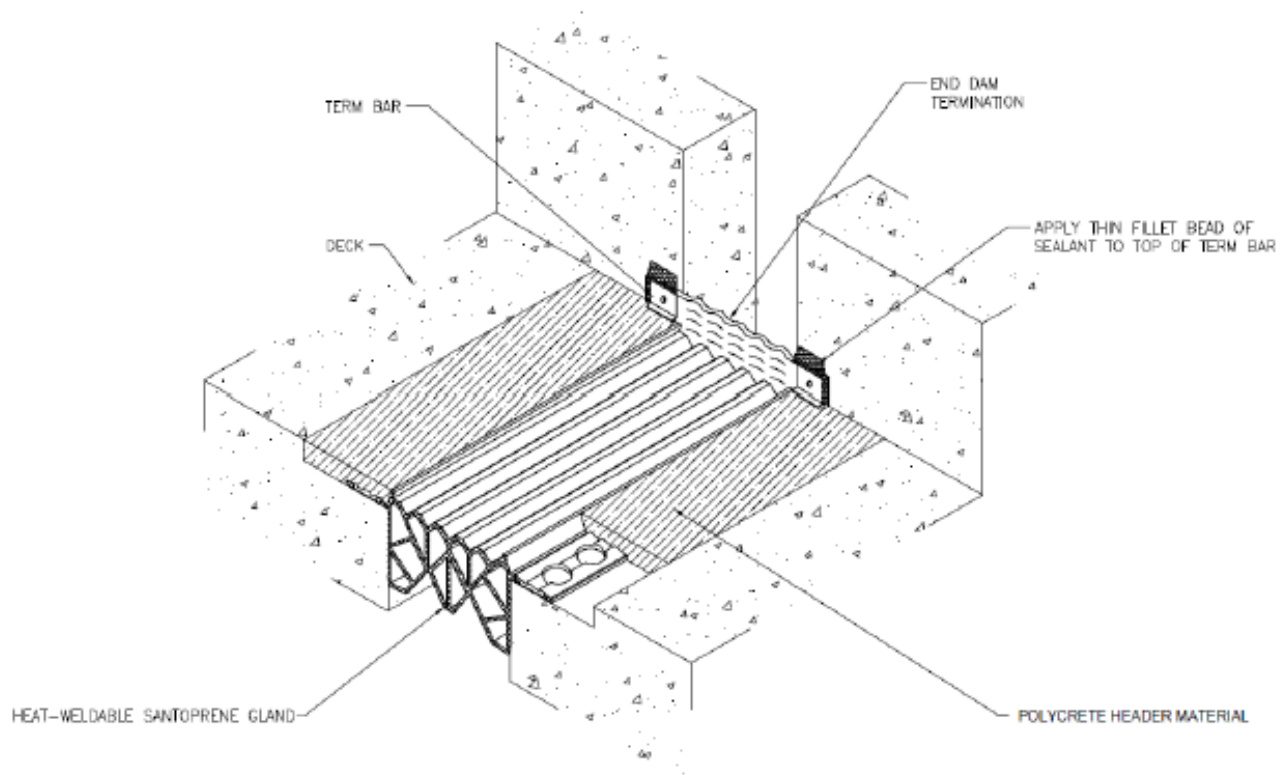




# Material Installation

## Terminations/Applications

1. End Dam Termination:
  - a. Before any Polycrete is laid down, heat weld a sheet of Santoprene to the end of the run as shown below (be sure to leave enough sticking out on the top and sides so that it can be anchored vertically and redirect any surface water in the future)
  - b. Heat up both the EJ material and sheet material at the same time by sandwiching them against a hot plate (see Field Splice Procedure for splicing and heating instructions). Apply pressure to both sides until cooled and attached firmly, then smooth the connection around the entire seam with a soldering iron to prevent leaking.
  - c. Once finished, anchor the sheet material with termination bar “tabs” cut to size so both sides of the opening are secured. DO NOT use one bar across the entire sheet as it needs to move with the structure. Apply a bead of sealant around the tabs to waterproof.



# Material Installation

## 2. Floor-to-Wall/Column Application:

- a. Cut the wing of the seal and turn it up vertically against the wall or column you wish.
- b. Using an aluminum termination bar, anchor the wing sandwiched with sealant to the vertical surface making sure the screw grips the wing along the entire area.
- c. Once finished, run a bead of sealant along the top of the termination bar and where the wing was cut vertically to ensure waterproofing.

