

Installation Procedure for the AR-Series Colorable Seals

Pre-Installation Inspection

- 1) Prior to installation of the seal, the installer will visit the site and notify the proper authority in writing of any conditions (done under other sections) that might be detrimental to the installation or performance of the expansion joint. Coordinate the installation with related work. Detrimental conditions are determined to be:
 - a) Irregularities in joint opening width exceeding 1/4"
 - b) Unsound concrete, joint opening side walls, and/or substrate
 - c) Moisture, oil or other contaminates
 - d) Migrating cracks to the edge of the joint opening
 - e) Construction joints intersecting perpendicular to the joint opening

Preparation of Surfaces of Block-Out Recess In Deck

- 1) All surfaces to receive the compression seal should be dry, clean, and sound concrete free of loose, cracked, delaminated, and spalled sections. Repair any sections that do not meet these criteria. The surfaces to receive the seal should be sandblasted to exposed aggregate. Sandblasting will increase the surface area and enhance the bond capacity of the lube/adhesive. The sandblast process will also remove all laitance and other bond-inhibiting contaminants.

Preparation of Joint Interfaces

- 1) Form or saw-cut the groove/joint opening into the concrete to the recommended depth. Assure that the interfaces, whether concrete or steel, run parallel to each other for the length of the run. Walls should be plumb to the top surface of the concrete and spaced at a consistent width across the joint. Unsound concrete should be removed and repaired.
- 2) Clean dirt, stones, and standing water from the joint opening. Use a stiff, bristled brush and compressed air to remove all dust. Sandblast the vertical walls of the groove to remove laitance and contaminants, and increase bond area for the adhesive.

Installation of the Seal

- 1) Immediately prior to installation, the interface walls should be blown out again.
- 2) Uncoil the seal and allow it to relax. Clean the seal with clean rags and alcohol.
- 3) Apply the lube/adhesive to the ribs of the seal and to the walls of the joint opening.
- 4) Insert the profile in the gap to the proper depth. Excess adhesive above the ribbed area must be removed with a trowel or putty knife. Clean any excess drips or smeared lube/adhesive from the top of the seal. Remove any excess adhesive using organic solvents and a clean cloth rag.



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- 5) Allow the lube/adhesive to cure twenty-four hours (at temperature 70°F.). Maximum bond strength (at room temperature) is usually achieved within forty-eight hours.

Field Quality Control

- 1) Work that does not conform to the specified requirements should be corrected and/or replaced as directed by the manufacturer and Engineer.
- 2) Manufacturer/installer should supply guaranty/warranty to the owner authority, as required.

Recommended Equipment List

- 1) Electric grinder – 4” size wheel
- 2) Soft wire wheel - 4” or 6” diameter
- 3) Hand wire brushes
- 4) Clean cloth rags
- 5) Duct tape
- 6) 8” sharp knife – hack saw
- 7) Miter box
- 8) Putty knives & paint brushes (disposable)