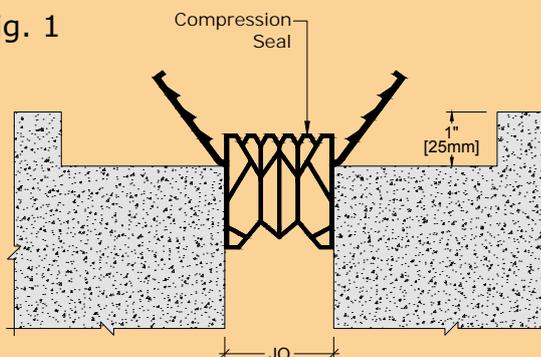


## A. Recommended Equipment

1. The following installation equipment is required:
  - a. Heavy duty jiffy mixer for mixing liquids and prebatched aggregate.
  - b. Electrical Power for running the mixer.
  - c. Miscellaneous hand tools such as
    - 1.) Sandblasting Unit
    - 2.) Hand Blower
    - 3.) Roofing Paper
    - 4.) Duct Tape
    - 5.) 1 Clean 6 gallon Pail
    - 6.) 3/4" Heavy Duty Drill with Large Mixing Paddle
    - 7.) Margin Trowels
    - 8.) 2" Disposable Brushes
    - 9.) Solvent Toluene or MEK (not alcohol base)
    - 10.) Rags
    - 11.) Personal Safety Glasses, Gloves, Uniform, Shoes, etc.
    - 12.) Pro-Mortar Kits, Part A, Part B & Part C
    - 13.) 2 men for mixing & pouring the material +2 men for trowel.

Fig. 1



## B. Estimated Manpower Requirements

2. Efficient KC Series expansion joint system Installation requires a minimum of three individuals.
  - a. One operating the special mixer, of the aggregate and preparing the blend of aggregate and resins.
  - b. One bringing prebagged aggregate to the mixer, delivering the final mix to the blockout area placing the mix in the blockout.
  - c. One packing and troweling the final mix after placement in a blockout.

### NOTE:

These are manpower minimums and should be increased if greater installation capacity is desired. Typical daily output will be approximately 200-250 LF per 8 hours

## C. Preparation of the Work Area

3. To ensure proper Pro-Mortar bond, clean the blockout of all contaminants and impurities such as water repellents, laitance, surface dirt/rust, and old sealants, by sandblasting or wire brushing before applying elastomeric concrete.
4. Level blockout flat with latex modified mortar for the seals. After leveling, make a blockout depth minimum of 1" (25mm) and a min. width of 3" (76mm).
5. Adjacent joint area maybe masked with tape to ensure neat, clean joint lines.
6. Blockout area must be completely dry before applying Pro-Mortar.

Figure 1

## D. Placement of Membrane Seal

7. Center the compression seal over the joint opening and install the perforated seal flaps seated squarely on the blockout base. Refer to chart for membrane seal selection.



Fig. 2

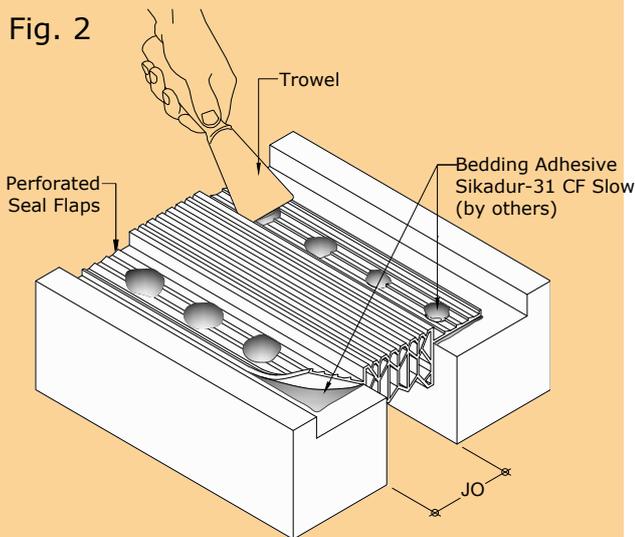


Fig. 3

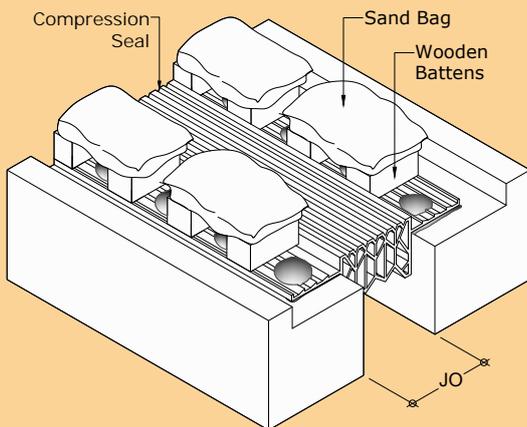


Fig. 4

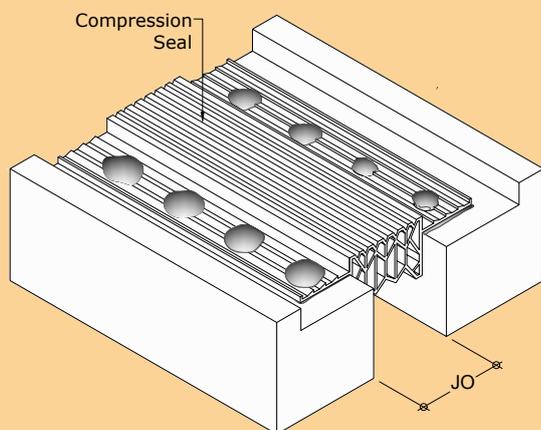
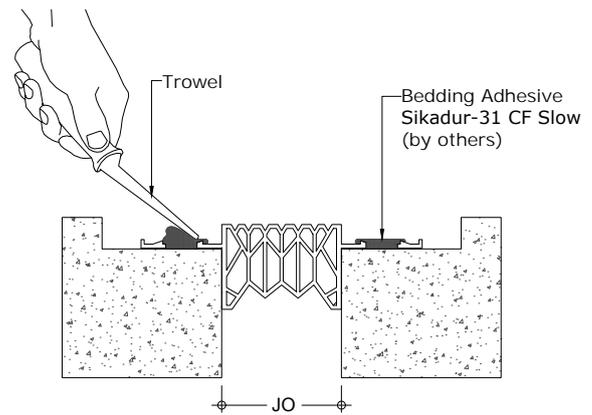


Figure 2

### E. Installation of Bedding Adhesive.

- Mix components A and B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (maximum 300 rpm) until the material becomes smooth in consistency and a uniform grey colour. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approximately 1 minute at low speed to keep air en-trapment at a minimum. Mix only that quantity which can be used within its pot life.



- Raise the perforated seal flaps and spread using trowel at 1.5mm layer of (Sikadur-31 cf slow) bedding adhesive, evenly over the blockout. Ensure seal flaps are firmly pressed on the bedding adhesive. Fill-up with adhesive in every hole of the seal flaps and lapping into the top surface. Embed seal flaps while adhesive is still fresh.

Cure Time (subject to humidity & UV levels): Optimum curing will be achieved in 12 hours when ambient temperatures are in the range of 10-35 degree celsius.

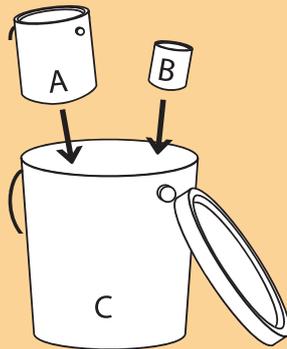
Figure 3 & 4

Place wooden battens and sand bags on the seal to ensure seal flaps remain flat. Seal flaps should not protrude into the joint. Seal flaps must rest on the blockout.

- Once the KCS seal is firmly fixed to the concrete blockout, cover it with elastomeric concrete header material.

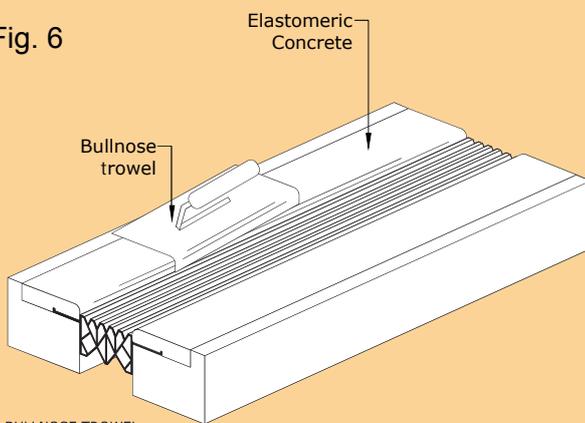
## KC Series

Fig. 5



PARTS A & B ARE SHIPPED  
INSIDE CONTAINER C

Fig. 6

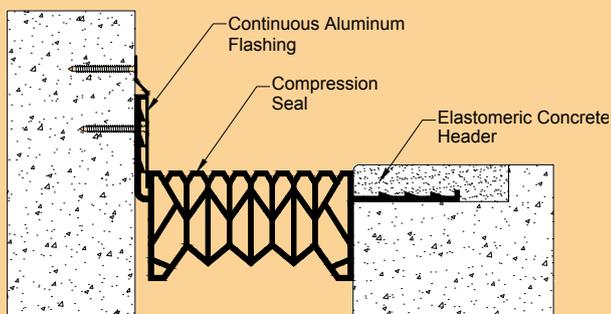


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### KCC Series - Floor to Wall Application

15. Bend one wing of Compression Seal on wall side going up, cover with metal flashing and fix with self-drilling crew (see figure 7).

Fig. 7



### F. Mixing of Elastomeric Concrete Header Material

Figure 5

The elastomeric blockout material is composed of:

- Part A - elastomeric epoxy
- Part B - elastomeric fast cure
- Part C - aggregate

10. Remove all contents from large pail and transfer Part C aggregate into separate pail. 1 unit of elastomeric header will install 18 LF. Blockout dimensions: 3/4" x 3".

11. Blend Parts A and B together in large bucket C. Mixing drill shall be a 3/4" counter clock wise with a paint style mixing blade or similar. (Use a jiffy mixer if large quantities are utilized). This liquid blending process should take no longer than 2 minutes with drill (1 to 1.5 minutes with a jiffy mixer). Store the resins at room temperature.

12. Slowly blend the Part C aggregate into the liquid. keep the mixing blade on the bottom of the pail for a minimum of 30 to 45 seconds to start the mixing.

### G. Placement of PRO-MORTAR Elastomeric Concrete Header

13. For protection, mask the exposed seal.

#### NOTE:

Duct tape may be used for masking as elastomeric material will not adhere to duct tape.

Figure 6

14. Pour or scrape the mixed Elastomeric Concrete into the blockout area and trowel in place with a bullnose or bricklayer trowel.

#### NOTE:

Dipping tools in toluene or xylene helps minimize adhesion of epoxy to tools.

### H. Storage

All parts of elastomeric concrete and bedding material should be stored under cover and clear of the ground. Storage conditions should be dry, >5 degree celsius and <30 degree celsius. Under normal conditions in un-opened packaging the shelf life is 12 months.

