



## GN SERIES FLOOR EXPANSION JOINT COVER



The following installation instructions are very important. Read them carefully, and be sure you understand them completely before you begin any work.

### PREPARATION

1. Make sure the width and depth of the joint face are 90° to the slab's surface.
2. The Expansion joint opening must be constructed straight, parallel and plumb. Concrete saws and diamond grinding disks should be used to correct any deviations.
3. If spalling occurs due to saw cutting, repair it prior to seal installation with pre-approved patching material.
4. A tooled edge on the corners of the concrete is desired. The radiused edge reduces the effects of impact loading from vehicles and lessens the chance of edge erosion, cracking or spalling.
5. Concrete adjacent to the expansion joint system must be sound. This should be confirmed by tapping these areas with a hammer (see Figure 1). If a hollow sound is heard or if the concrete cracks, crumbles or loosens, the unsound concrete must be removed and repaired with a structural repair mortar.

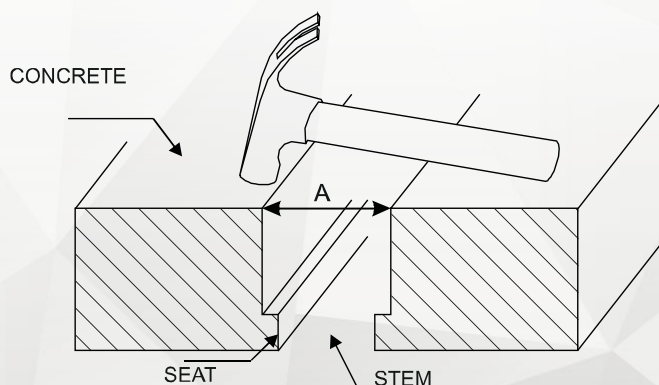


Figure 1.



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6. Edge spalling, sharp projections and concrete voids (bug holes) shall also be repaired prior to proceeding with the joint installation. All repair materials used should have reached full cure conditions as specified by the repair material manufacturer. All obstructions such as form work and refuse shall be removed from the joint opening.
7. Repair mortars acceptable to GENOTEK include; from SIKA, BASF.
8. Concrete must be structurally sound and fully cured (28 days).
9. Areas that are repaired must also be sound and be confirmed by tapping these areas with a hammer. If a hollow sound is heard or the repaired area cracks, crumbles or loosens, the unsound repair must be completely removed and repaired again with a structural repair mortar. Access to the bonding surface of the interface walls must be free and clear. Any obstructions must be accounted for in the installation process.
10. Prior to progressing with the installation of the seal, clean the interface walls of the concrete to remove any laitance, loose material, dirt, grease, oil, etc.

### EPOXY / ADHESIVE

1. The epoxy or adhesive should be 100% solids, solvent-free, moisture-tolerant, high-modulus, high strength, structural epoxy paste adhesive.
2. Epoxy Paste adhesives acceptable to Gendex include ;Pro-Poxy 300 Epoxy Gel ,Sikadur 31, Hi-Mod Gel MasterEmaco General-purpose gel epoxy adhesive ADH 1420. Contact GENOTEK for recommendations on other compatible epoxy paste adhesive.

*IMPORTANT NOTE: Do not use epoxy or install this seal if either the substrate temperature or air temperature will drop below 50°C during the installation or cure time of 8 hours.*

### INSTALLATION

These installation instructions are for the installation of GENOTEK GN SERIES - No Wing Seal System. The joint cover system shall be installed as follows:

1. Before beginning installation of the GN Series, review the layouts for the various types and location as detailed on the approved GENOTEK shop drawings.
2. Apply 50 mm masking tape on both sides of the joint.



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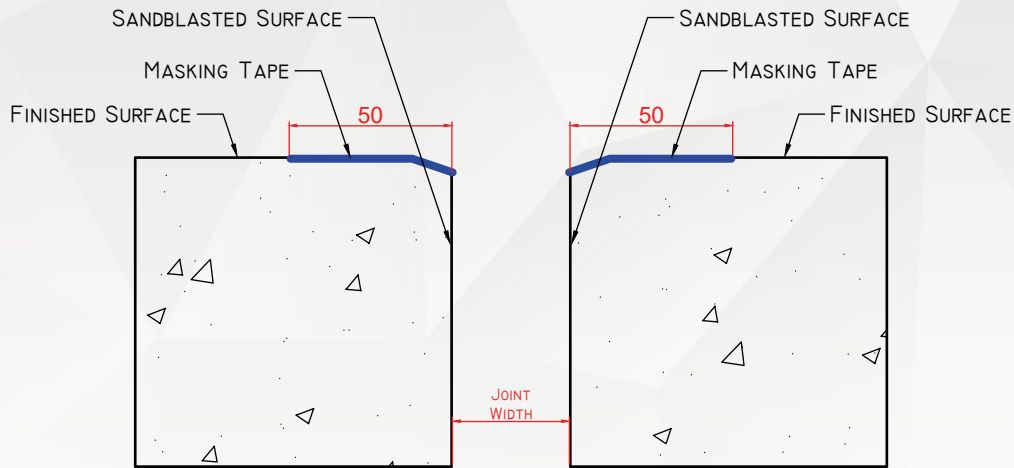


Figure 2.

3. Unroll each length of Compression Seal and lay each one down next to the joint where it is to be installed. This will allow the seal some time to relax before it is installed.
4. Wire brush the sides of the compression seal thoroughly using a drill or grinder with a wire wheel mounted in the chuck. All wire brushed surfaces should have a dull black appearance when finished. There should be no gloss or white residue left on these surfaces. The epoxy may not bond properly if the seal is not thoroughly wire brushed.

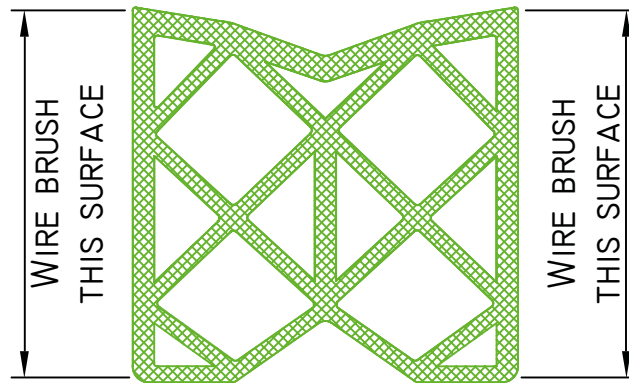


Figure 3.

5. Clean the seal thoroughly using compressed air to remove any loose debris.
6. Make sure that the ends of the seal are cut square and clean.
7. Mix the 2 part epoxy (Please note that epoxy is not supplied by GENOTEK, it can be supplied upon request.)
8. Apply the epoxy by spreading the epoxy with a trowel until it is approximately 3 - 4 mm thick (see Figure 4 and 5). The epoxy must be applied quickly to allow time for the seal to be installed before it begins to gel. Once the epoxy has begun to gel or get hot, a proper bond will not be achieved.



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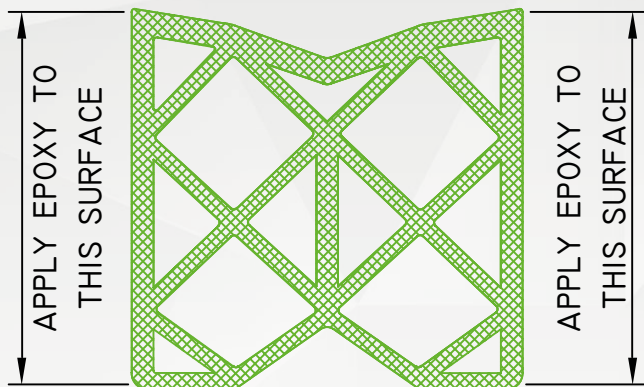


Figure 4.

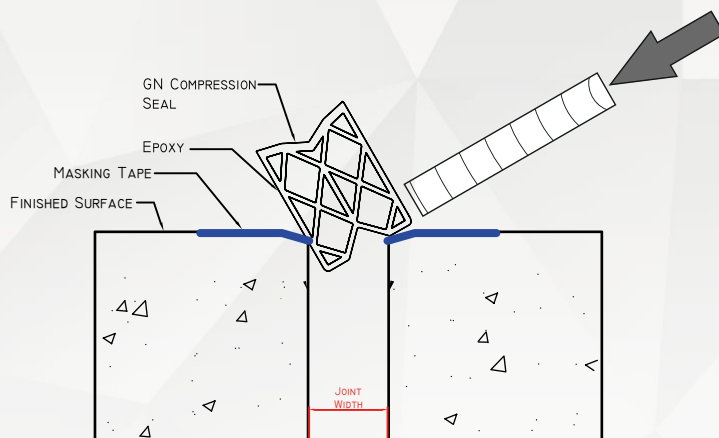


Figure 5.

- Starting at one end of the seal, push inward on the Compression Seal using a shaft (3/4" plywood, metal bar stock, etc.). See detail on previous page. As you push inward on the Compression Seal every few inches, have someone follow behind you walking on the seal to seat it into place. Recess the Compression Seal approximately 3-6 mm into the joint (see below).

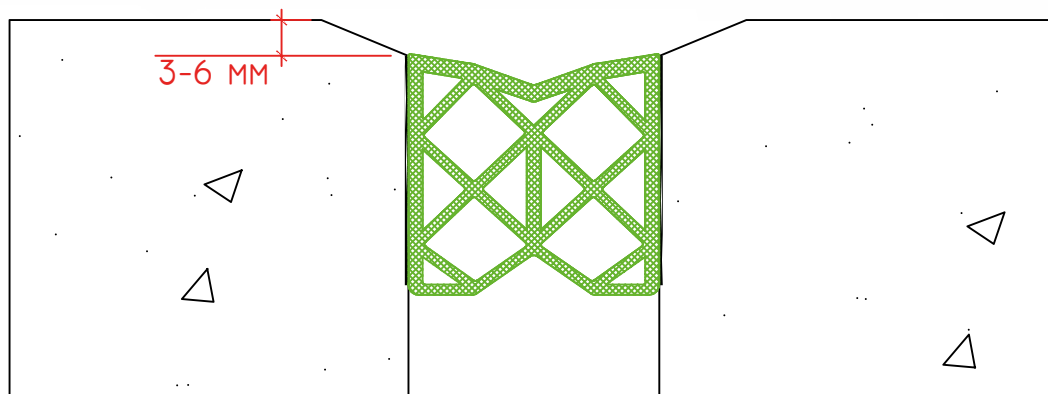


Figure 6.

- As seal is installed, clean the visible surface. a margin trowel may be used to remove any excess adhesive. **DO NOT ALLOW ADHESIVE TO CURE BEFORE CLEANING**
- Once installation is complete, remove tape from joint edge and clean any adhesive off of joint surface. **IMPORTANT:** If a splice is to be made due to not completing the installation, leave approx. 2'-0" [60cm] of seal and substrate free of epoxy for later splicing and installation. Contact **GENOTEK** Splicing and intersection details.