
1. PURPOSE

- 1.1 The purpose of this document is to establish typical guidelines for installation of Willseal® BG100. The techniques involved may require modifications to adjust to jobsite conditions. Consult your local Willseal or Tremco Sales Representative or Tremco Technical Services for specific design requirements.
- 1.2 Willseal BG100 is used as an external primary, weathertight seal in below-grade construction applications like blind-side wall applications. It is a market leading solution that delivers easy, safe, rapid, and reliable joint seals.

2. SCOPE

- 2.1 This document will provide the necessary instructions for installation of Willseal BG100 to qualify for a manufacturer's warranty.

3. APPROVED SEALANTS

- 3.1 Recommended materials for use with Willseal BG100:
 - a. Dymonic® 100
 - b. TREMPRO™ Chem-X Pro®
- 3.2 Follow recommended sealant dimension guidelines on sealant manufacturers Data Sheet.

4. AVAILABILITY

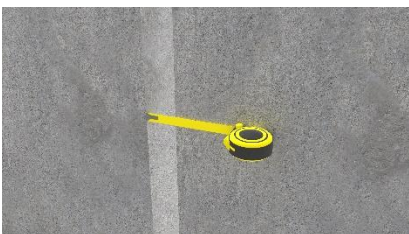
- 4.1 Willseal BG100 is available in joint sizes from ½" to 3" sticks (6.5 ft lengths) and ½" to 1" in coils (20ft lengths) from your authorized Tremco distributor, or any Tremco or Willseal Sales Representative. Pre-notched connection points are available upon request. Custom sizes are available upon request. For more information contact Customer Service by phone at 800-274-2813 or email custserv@willseal.com.

5. STORAGE

- 5.1 Store materials in a dry, enclosed area, making sure materials are off the ground and out of direct sunlight.
- 5.2 Material will expand faster when hot and slower when cold. In cold temperatures, store material in a heated area 24 hours prior to installation. In hot temperatures, store material out of direct sunlight and not in an enclosed storage container where temperatures may exceed 100 °F (38 °C).

6. MATERIAL SIZING

- 6.1 Material should be ordered to the designed joint size width, with a construction tolerance of 1/4". As construction tolerances can vary, it is recommended the joint size be verified every 5 to 7 ft (1.5 to 2.1 m) to ensure gap opening is uniform. See Ref 1.
- 6.2 Allow sufficient depth to recess the foam material a minimum 1/4" (3-6 mm) into the joint. See Ref 2.



Ref 1 – Measure gap opening.



Ref 2 – Ensure depth for ¼ in. foam recess minimum.

7. MATERIAL PREPARATION

- 7.1 Store material at a minimum of 68 °F (20 °C) for a minimum of 24 hours prior to installation, regardless of temperature at location of installation.

7.2 Cutting Material

- a. Use a miter saw to make any cuts to the material before removing the clear shrink packaging. All starting and ending pieces must be square to the termination point. See Ref 3.
- b. Use a sharp foam knife to make any cuts after the clear shrink packaging has been removed. See Ref 4.



Ref 3 – Measure then cut before removing shrink wrap.



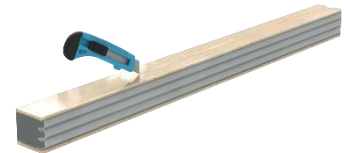
Ref 4 – Cutting with foam knife after shrink wrap removed.

8. SUBSTRATE PREPARATION

- 8.1 Verify that the joint is clean, sound, and will provide an appropriate surface for installation of the joint sealant.
- 8.2 Use compressed air to clean any loose debris from the joint.
- 8.3 Apply xylene to a clean cloth and wipe the joint walls to the depth of the sealant material plus 1 in.
- 8.4 Verify that the joint is uniform and repair any damages or irregularities prior to installation.
- 8.5 Check the material for appropriate length, width, and depth.
- 8.6 Joint depth must allow for the installed material to be recessed a minimum of 1/4" from the accessible substrate surface. Joint depth must allow for the full depth of the foam to make full contact with the sidewalls.

9. APPLICATION PROCEDURE

- 9.1 When fully prepared to install, cut/slit the shrink packaging along the edge of the masonite strapping. See Ref 5.
- 9.2 Material will expand faster when hot and slower when cold. In cold temperatures, store the material in a heated area 24 hours prior to installation. In hot temperatures, store the material out of direct sunlight and not in an enclosed storage container where temperatures may exceed 100 °F (38 °C).
- 9.3 Verify that the material is cut square at both ends for proper seams; all pieces must be square to the termination point.
 - a. For all Crucifix, T-Intersection, and/or Butt Joints, a reveal notch must be cut to expose the integral barrier and maximize surface contact for the connection. Take care not to remove the integral seal when notching the material.
 - b. In these areas, the integral barriers of adjacent sticks must be bonded together with the supplied accessory sealant. The splice adhesive must be wet applied at joints and 4-ways over all parts of foam in contact with the other parts of foam, to complete the seal. The splice adhesive must be across the entire adjoining face to ensure proper continuance through splices.
 - c. Notched connections should be applied directing water to be evacuated to the exterior of the wall with a minimum of 3 inches spanning the adjoining stick.
- 9.4 Install the supplied sidewall adhesive to both sidewalls at a minimum 1/8" (3 mm) thickness. Sidewall adhesive shall be applied the full depth of the foam plus 1/2" (12 mm)
- 9.5 Remove the clear release liner from each side of the stick.
- 9.6 Foam material should be allowed to expand to the nominal width of the installed joint. This will aid in the installation as both sidewalls of the foam will be in compression against the sidewalls of the substrate.
- 9.7 For vertical joints, begin installation at the bottom of the joint and work upward.



Ref 5 – Removing shrink wrap by carefully slitting shrink wrap along masonite.

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- 9.8 Subsequent sticks shall be installed with a minimum 1/2" (12 mm) overlap toward the previous stick. Subsequent sticks shall be applied from the opposite end, working toward the previous stick. This will ensure that sticks are installed with sufficient compression against on another.
- 9.9 For joints that run horizontal, in a vertical plane, begin installing the material at one side of the joint (either side) and continue to install the material working towards the opposite end. To ensure compression with the vertical joints, horizontal joints should be cut 1/2" to 1" longer than the panel width and compressed against the vertical sections.
- 9.10 Apply a detail bead of sidewall adhesive to the interior of the expansion joint on either side of the joint and to connect the faces of adjoining sticks.. Excess of the previously installed sidewall adhesive may be used for the detail beads.
- 9.11 Allow 72 hours for full expansion and material equalization. Expansion and equalization rates are affected by temperature. Material will expand faster when hot and slower when cold.

10. MAINTENANCE

- 10.1 Follow Recommended Maintenance Procedures document for vertical applications on tremcosealants.com.

11. LIMITATIONS

- 11.1 Avoid contact of the Willseal BG100 with hydrocarbon solvents and corrosive chemicals. Willseal BG100 cannot be used as a primary seal where standing or ponding water will occur. Do not apply to damp, contaminated, or frost covered surfaces. Single wall applications must be installed within 30 minutes. Contact your local Tremco or Willseal Technical Sales Representative for questions.

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