TREMCO

APPLICATION
INSTRUCTIONS

IMMERSEAL® HD
High Strength, Elastomeric,
Pre-Cured Silicone Sealant

1. PURPOSE

1.1 The purpose of this document is to establish guidelines for the installation of ImmerSeal® HD. The techniques involved may require modifications to adjust for jobsite conditions.

1.2 Consult your local Tremco Sales Representative or Tremco Technical Services for specific design requirements.

2. SCOPE

2.1 This document will provide the necessary instructions for installation of ImmerSeal HD to qualify for a manufacturer's warranty.

3. MATERIALS NEEDED

3.1 ImmerBond – High Performance Adhesive Sealant (recommended)

3.2 Sharp razor blade

3.3 Cleaning solvent (for use on non-porous substrates)

3.4 Clean, dry, lint-free cloths

3.5 Optional materials

    a. Masking tape
    b. Pressurized water system
    c. Compressed air line, capable of dispensing pressurized air
    d. A roller as wide as the ImmerSeal HD being applied

4. AVAILABILITY

4.1 ImmerSeal HD is readily available in a variety of colors and sizes. Custom sizes/widths, colors, geometries, and thicknesses available upon request. Lead times, MOQs, and costs will vary based on the request.

    a. Standard sizes are 3", 4", 6", 7", 8", 9", 10", and 12".
    b. Standard thickness is 0.078" (2 mm).
    c. Not all size/color options are held in stock.

4.2 ImmerSeal HD is packaged in 100 ft rolls for sizes up to 9" wide and in 75 ft rolls for sizes 10" and wider.

4.3 Contact your local Tremco Sales Representative or Tremco Technical Services for more information.

5. STORAGE

5.1 Store materials in a cool, dry location at 60 to 80 °F (15 to 27 °C).

6. SUBSTRATE PREPARATION

6.1 Non porous surfaces should be cleaned with an appropriate solvent using the two-cloth method.

6.2 Porous surfaces should be cleaned with dry, oil free compressed air.

6.3 Grinding or abrasion may be necessary to remove materials that may interfere with the sealant adhesive. If the substrate is cleaned with pressurized water, use caution to prevent water from entering the structure through the open joint.

6.4 Ensure that all cleaning agents are completely removed and allow the substrate to adequately dry before applying sealant adhesive and ImmerSeal HD. ImmerBond is the recommended sealant adhesive for this application.

    a. If another sealant adhesive is being used, make sure to follow sealant adhesion guidelines of the silicone adhesive manufacturer after confirming compatibility with ImmerSeal HD via consultation with Tremco Technical Services.
    b. Contact your local Tremco Sales Representative or Tremco Technical Services for more information.

7. DETAIL WORK

7.1 Masking tape may be applied in areas of high visibility or difficult sealant adhesive applications to ensure good appearance. When applying masking tape, place it on either side of the joint outside the limits of where the sealant adhesive and ImmerSeal HD will sit. This will allow for removal of excess sealant adhesive after application, producing a crisp, clean edge.

8. APPLICATION PROCEDURE

8.1 Start application with horizontal joints before proceeding with vertical joints.

8.2 Apply a bead of ImmerBond, sealant adhesive, in a straight line near the outside edge of the joint/opening to be covered. Allow enough space for the sealant adhesive to squeeze out onto the edge of the ImmerSeal HD and then stop. The adhesive bead should be approximately 1/8" to 1/4" in diameter depending on the uniformity of the substrate.

8.3 Next, unroll the appropriate length of ImmerSeal HD and place it uniformly spaced over the joint to be sealed. Then firmly press the ImmerSeal HD into place using a flat piece of wood or roller to ensure adequate contact between the adhesive and ImmerSeal HD.

    a. A roller should only be used if the application is on a smooth surface.

    b. If the installation is over a protrusion, such as a fastener, apply a small amount of adhesive sealant onto the protrusion to eliminate chaffing during movement.

    c. At intersections simply overlap the vertical ImmerSeal HD over the horizontal and ensure a proper seal by applying enough sealant adhesive.

8.4 Carefully remove any masking tape and excess sealant adhesive from the edges of the ImmerSeal HD and substrate before it cures. Trim all ends and terminate joint with a bead of sealant.

9. LIMITATIONS & CONSIDERATIONS

9.1 ImmerSeal HD pre-cured silicone sealant is not recommended for use under the following conditions:

    a. Below grade or below water line applications.

    b. Joints where significant physical abrasion may occur, such as vehicular traffic or foot traffic joints.

    c. In association with building materials that bleed oils, plasticizers or other materials.

    d. Should not be bonded with low modulus silicone sealant.

9.2 Always apply horizontal joints before vertical joints. At intersections, be sure to overlap the vertical ImmerSeal HD over the horizontal piece and ensure a proper seal by applying sufficient sealant adhesive to fully bond the surfaces.

9.3 No maintenance should be necessary. In the event that ImmerSeal HD is damaged, replace the damaged section in accordance with the specified installation methods. Effective repairs on small tears can be achieved by using a small amount of the proper sealant adhesive. Contact your local Tremco Sales Representative or Tremco Technical Services for more information.

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