

### 1. Product Name:

**ImmerSeal® HD**

### 2. Manufacturer:

Sealex International, Inc.  
8850 Moeller Drive  
Harbor Springs, MI 49740  
Phone: (231) 348-5020  
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www.sealexinc.com

### 3. Product Description:

**ImmerSeal® HD** is a high strength elastomeric pre-cured silicone sealant that is typically bonded to substrates using a premium silicone adhesive sealant. **ImmerBond®** High Performance Adhesive Sealant has been designed specifically for this purpose. **ImmerSeal® HD** is specially formulated for high strength and resistance to puncture and tearing. **ImmerSeal® HD** is available in a variety of standard colors and sizes and is successfully used in various applications, especially those in which strength and tear resistance is critical.

#### Product Features:

- High flexibility and movement capability
- High tear & puncture resistance
- Ease of installation allows for low labor cost
- Color fast formulation
- Wide operational temperature range
- Resistant to UV exposure and weathering
- High strength makes it ideal for roofing and other horizontal applications
- Capable of sealing high movement joints
- Non-corrosive and corrosion resistant
- No fasteners required for installation

#### Standard Colors:

- Gray and Translucent
- Custom Colors also available

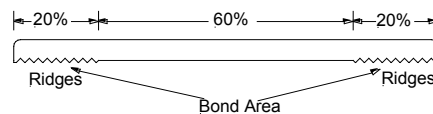
#### Areas of Application:

**ImmerSeal® HD** is specifically designed for numerous applications including but not limited to:

- Expansion joint seals (new & remedial construction)
- Window system seals
- Window perimeter joint seals
- Curtainwall seals
- Metal building applications
- Roofing seals
- Shipping container seals

#### Sizes:

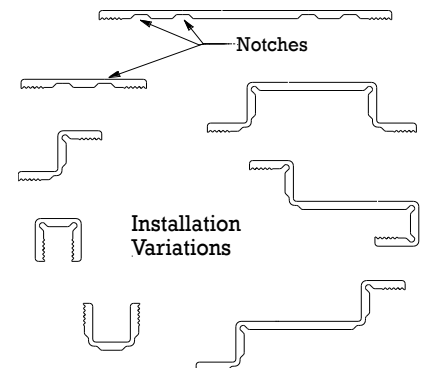
**ImmerSeal® HD** pre-cured silicone sealant is available in standard sizes (widths) of 8 inch, and 12 inch and is also available in custom sizes ranging in width from 1 to 12 inches in 1 inch increments. Standard thickness is 2 mm (0.078"), custom thicknesses are also available.



#### Services:

- Custom color matching
- Custom design
  - custom width
  - custom thickness
  - custom shapes
  - profiles with notches / bend-lines, allow for a variety of installation configurations

#### Examples of Notched Profiles



- Adhesive testing
- Special packaging

#### Packaging:

**ImmerSeal®** is packaged in 100 ft. rolls for sizes up to 9 inches wide and in 50 ft. rolls for sizes 10 inches and wider.

### 4. Technical Data:

#### ImmerSeal® Extruded Profiles – As Supplied (Typical Properties)

Hardness, Shore A	ASTM D-2240	50° – 65°
Tensile Strength	ASTM D-412	525 psi + 3.6MPa +
Tear Strength	ASTM D-624 (Die B)	150 lb/in + 26.2 N/mm +
Elongation at Break	ASTM D-412	200 %+
Joint Movement Capability	ASTM C-1518 (ASTM C-1523)	100% - Elongation 75% - Compression
Operational Temperature Range		-50°C to 150°C -60°F to 300°F
UV Resistance		Unaffected
Ozone Resistance		Unaffected
Radiation Resistance		Unaffected Easily Decontaminated

## Limitations:

**ImmerSeal® HD** pre-cured silicone sealant should not be used under the following conditions:

- Below grade or below water line applications
- Joints where significant physical abrasion and abuse may occur, such as vehicular traffic joints
- In association with building materials that bleed oils, plasticizers or other material.
- **ImmerSeal® HD** should not be bonded with low modulus silicone sealant.

## 5. Installation:

**ImmerSeal® HD** pre-cured sealant must be bonded to dry and clean surfaces utilizing a high quality 100% silicone adhesive sealant. Field adhesion testing should be conducted to determine the adequacy of the adhesive system. Follow the instructions of the sealant adhesive manufacturer regarding proper surface preparation and primer usage when recommended.

### Surface Preparation Guidelines:

Porous surfaces should be cleaned with dry, oil free compressed air. 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. Ensure that all cleaning agents are completely removed and allow the substrate to adequately dry before applying the sealant adhesive and the **ImmerSeal® HD**. Make sure to follow sealant adhesion masking tape guidelines of the silicone adhesive manufacturer. Non porous surfaces should be cleaned with an appropriate solvent using the two-cloth method.

### Masking:

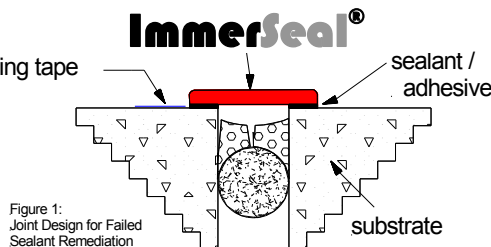
Masking tape may be applied in areas of high visibility or difficult sealant adhesive applications to ensure good appearance. (see figure 1.)

## Product Application:

Apply a bead of sealant adhesive in a straight line near the outside edge to be covered. Allow enough space for the sealant adhesive to squeeze out to 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. Next, unroll the appropriate length of **ImmerSeal® HD** and place it uniformly spaced over the joint to be sealed. A flat piece of wood or, if the application is on a smooth surface, a roller may be used to press the **ImmerSeal® HD** firmly into place to ensure adequate contact between the adhesive and the **ImmerSeal® HD**. If installed over a protrusion, such as a fastener, apply a small amount of adhesive on the protrusion to eliminate chaffing during movement. Remove any excess sealant adhesive from the edges of the **ImmerSeal® HD** and substrate. Trim ends and terminate with a bead of sealant. Always apply horizontal joints before vertical joints. At intersections simply overlap the vertical **ImmerSeal® HD** over the horizontal and ensure a proper seal by applying enough sealant adhesive.

### Clean up:

Carefully remove any masking tape and remove any excess sealant adhesive before it cures.



## Safe Handling Information:

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE USE, READ MATERIAL SAFETY DATA SHEET FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THIS INFORMATION CAN BE OBTAINED FROM SEALEX.

## 6. Maintenance:

No maintenance should be necessary. In the event **ImmerSeal®** is damaged, replace the damaged section in accordance with specified installation methods. Effective repairs on small tears can be achieved by using a small amount of the proper sealant adhesive.

## 7. Technical Services:

Sealex representatives are available to assist in product selection, testing and application guidance. For more information contact Sealex at:

Phone: (231) 348-5020

Fax: (231) 348-5255

Email: [info@sealexinc.com](mailto:info@sealexinc.com)

## 8. Disclaimer of Warranty:

Unless Sealex International, Inc. provides a separate written warranty with respect to any specific products produced pursuant to any specific purchase order, Sealex's sole responsibility with regard to product warranties shall be to refund the purchase price or replace any product that does not meet Sealex's then current sales specifications. Any refund or replacement is conditioned on the buyer providing Sealex written notice of a product defect claim within 90 days of purchase of the product from Sealex.

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