

### 1. Product Name:

**ImmerFlex™**

### 2. Company Information:

Sealex International, Inc.  
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### 3. Product Description:

Sealex **ImmerFlex** products are extruded and molded elastomeric silicone shapes that are usually bonded to substrates using silicone sealant as adhesive.

**ImmerBond®** High Performance Adhesive Sealant has been formulated specifically for this purpose. Other silicone sealants may also be utilized.

**ImmerFlex** offers vast design flexibility and can be colored to match most surfaces.

#### Product Features:

- Excellent tear resistance
- Semi-rigid shaped profiles
- Availability of three-dimensional molded parts
- Custom design flexibility
- Ease of installation
- Color fast formulation
- Wide operational temperature range
- Non corrosive and corrosion Resistant
- Resistant to ultraviolet exposure and weathering
- Capable of sealing high movement joints

#### Areas of Application:

**ImmerFlex** products are specifically designed for numerous applications including but not limited to:

- Expansion joint seals
- Window perimeter joint seals
- Metal roof expansion joints
- Building to building joints
- Bridge Seals
- Fillet beads including shower, tub and window seals

- Roofing seals
- Seals for HVAC systems
- Shipping container seals
- Refrigeration seals
- R/V & marine application seals

#### Sizes:

Most **ImmerFlex** products are manufactured to customers' specifications.

**ImmerFlex** elastomeric silicone seals are available in the following standard sizes:

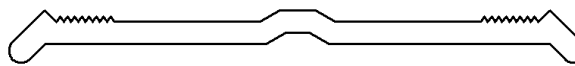
6", 9", 12", 15", 18" - gray

Standard thickness is 2mm (0.078")

#### Services:

- Custom color matching
- Custom design
  - custom extruded shapes
  - custom molded shapes
- Adhesive testing
- Special packaging

Extruded Profile Example:



#### Packaging:

Extruded seals are generally rolled up on cores and are often packaged individually.

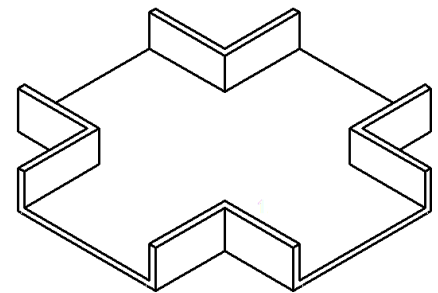
Molded parts are packaged in boxes with packaging quantities based on the parts' size and shape.

#### Limitations:

**ImmerFlex** products should not be used under the following conditions:

- Below grade or below water line applications

3D-Molded Part Example:



### 4. Technical Data:

**ImmerFlex™** Extruded Profiles – As Supplied (Typical Properties)

Hardness, Shore A	ASTM D-2240	35° - 70°
Tensile Strength	ASTM D-412	900 psi + 6.2 MPa +
Tear Strength	ASTM D-624 (Die B)	70-100 lb/in + 12.2-17.4 N/mm +
Elongation at Break	ASTM D-412	300 %+
Joint Movement Capability		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

- Joints where physical abrasion and abuse may occur, such as traffic joints
- In association with building materials that bleed oils, plasticizers or other material.
- Adhesion testing must be performed when bonding with a low modulus silicone sealant.

### 5. Installation:

**ImmerFlex** 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 usage of primer 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 **ImmerFlex**. Make sure to follow adhesion 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.

### 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 extrusion and then stop. The bead should be approximately 1/8" to 1/4" in diameter depending on the uniformity of the substrate. Next, place the **ImmerFlex** uniformly spaced over the area to be sealed. To ensure uniform appearance, a flat piece of wood can be used to press the material firmly into place. If installed over a protrusion, such as a fastener. Apply a small amount of adhesive on the protrusion to eliminate chaffing during movement. If the application is on a smooth surface, a roller may be used to ensure a uniform wet-out of the sealant adhesive. Clean or tool-off any excess sealant adhesive from the edges of the performed sealant and substrate.

### 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 **ImmerFlex** 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 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. SEALEX SHALL NOT BE LIABLE AND EXPRESSLY DISCLAIMS ANY LIABILITY FOR ANY DAMAGE TO ANY STRUCTURE OR THE CONTENTS OF ANY STRUCTURE OR FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE, WHETHER IN CONTRACT OR IN TORT, INCLUDING NEGLIGENCE.



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