

1. Product Name:

ImmerSeal®

2. Manufacturer:

Sealex, Inc.
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Harbor Springs, MI 49740
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www.sealexinc.com

3. Product Description:

Sealex **ImmerSeal®** products are extruded ultra low modulus elastomeric silicone profiles that are usually bonded to substrates using silicone sealant as adhesives.

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

ImmerSeal® comes in a variety of standard shapes, colors and sizes and is successfully used in various applications.

Product Features:

- High tear resistance
- 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
- Reduces stress at bond-line making it well suited for soft and sensitive substrates such as EIFS
- Rapid cure of thin adhesive layer allows for early movement of substrates
- Economical alternative to cutting out existing failed sealant

Areas of Application:

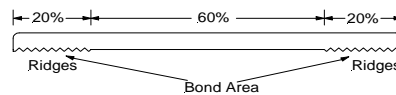
ImmerSeal® extruded profiles are specifically designed for numerous applications including but not limited to:

- Expansion joint seals (new & remedial construction)
- Window perimeter joint 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:

ImmerSeal® pre-cured elastomeric silicone seals are available in a variety of standard sizes, ranging in width from 1 to 6 inches, in 1/2 inch increments and 6 to 12 inches in 1 inch increments. Standard thickness is 2mm (0.078")



Standard Colors:

Black, White, Gray, Sandstone & Bronze

Special Colors:

Limestone, Char-Coal, Blue-Spruce, Red-Brick, Adobe-Tan, Precast & Pale Pink

Surface Finish:

Standard profiles have a matte surface. Coarse and fine textures to match building substrates are also available on a special order basis.

4. Technical Data:

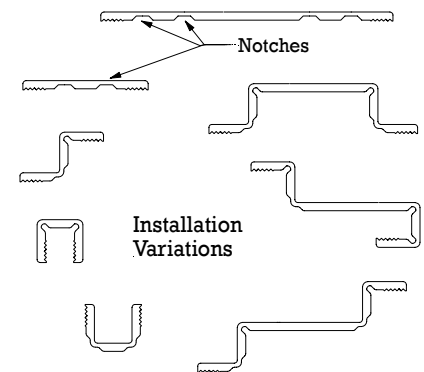
ImmerSeal® Extruded Profiles – As Supplied (Typical Properties)

Hardness, Shore A	ASTM D-2240	20° – 30°
Tensile Strength	ASTM D-412	350 psi + 2.4 MPa +
Tear Strength	ASTM D-624 (Die B)	70 lb/in + 12.2 N/mm +
Elongation at Break	ASTM D-412	500 %+
Tear Propagation	ASTM C-1518 (ASTM C-1523) Movement Class: 200% E Tear Class: PT (Knotty Tear)	Pass
Joint Movement Capability	ASTM C-1518 (ASTM C-1523)	200% - 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

Services:

- Custom color matching
- Special surface texturing
- 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:

Extruded seals are packaged in 100 ft rolls for widths up to 9 inches and in 50 ft rolls for widths 10 inches and wider.

Limitations:

ImmerSeal® extruded profiles should not be used under the following conditions:

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

5. Installation:

ImmerSeal® extruded profiles 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 **ImmerSeal**®. Make sure to follow sealant 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. (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 extrusion and then stop. The 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**® and place it uniformly spaced over the joint to be sealed. To ensure uniform appearance, a flat piece of wood can be used to press the extrusion firmly into place. 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 extrusion and substrate.

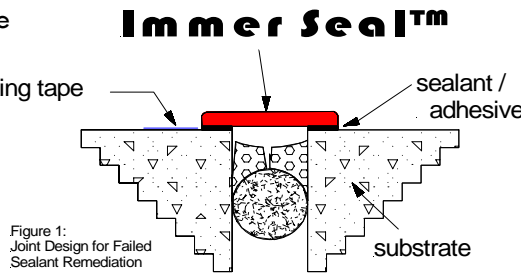


Figure 1: Joint Design for Failed Sealant Remediation

Trim ends and terminate with a bead of sealant. Always apply horizontal joints before vertical joints. At intersections simply overlap the vertical **ImmerSeal**® 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

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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SEALANT - WATERPROOFING & RESTORATION INSTITUTE

Issued to: Sealex, Inc.
Product: ImmerSeal
ASTM C 1523: Determining Modulus, Tear and Adhesion Properties of Pre-cured Elastomeric Joint Sealants

Movement, Cohesion & Adhesion: 200%

Dry/Room Temperature Loss of Adhesion/Cohesion Pass ✓

Water Immersion Loss of Adhesion/Cohesion Pass ✓

Frozen Loss of Adhesion/Cohesion Pass ✓

Heat Loss of Adhesion/Cohesion Pass ✓

Artificial Weathering Loss of Adhesion/Cohesion Pass ✓

Tear Propagation: PT (Partial/Knotty Tear)

ASTM D 412: Vulcanized Rubber and Thermoplastic Elastomers - Tension

Ultimate Elongation Results: 1,245% (500%+)

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PRE-CURED SEALANTS VALIDATION
www.swronline.org



Nonfood Compounds
 Program Listed
 Category Code: P1
 Registration No: 141775