Sikaflex® 15LM
High Performance, Low Modulus Elastomeric Sealant

Description
Sikaflex® 15LM is a low modulus, high performance, one-component, polyurethane-based, non-sag elastomeric sealant.

Where to Use
- Excellent for moving joints i.e. expansion, construction, whether in vertical or horizontal applications.
- Suitable for use between similar as well as dissimilar materials.
- Typical applications include joints in panel and wall systems, around window and door frames, reglets, flashings, etc.
- Exceptional sealant choice for high rise and facade applications where high movement capacity is required.

Advantages
- Capable of +100% / -50% joint movement.
- Easy and ready to gun.
- Eliminates time, effort, waste, and equipment cleaning.
- Cures to a durable, flexible consistency.
- Excellent cut and tear resistance.
- Stress relaxation properties.
- Non-leaching.
- Low modulus of elasticity.
- Excellent adhesion.
- Bonds to most construction materials, often without primer.
- Excellent resistance to aging, weathering.
- Proven in tough climates around the world.
- Can be painted with water-, oil- and rubber-based paints.
- Meets CAN/CGSB 19.13-M87, Classification MCG-2-40-B-N.
- Meets Federal Specification TT-S-00230C, Type II, Class A.
- Meets Federal Specification TT-S-00227E.
- USDA acceptance.
- Meets ASTM C719 Ext.+100% Comp.-50%.
- Meets Federal Specification for Silicones TT-S-001543A, Type NON SAG.
- SWRI validated.
- Canadian Food Inspection Agency acceptance.
- Ministère des Transports du Québec acceptance.

Technical Data

| Packaging | 300 mL (10.1 fl. oz) cartridge, 24/case; 590 mL (20 fl. oz) sausage, 20/case 11.4 L (3 US gal.) pail (special order only). |
| Colour | White, Colonial White, Aluminum Grey, Limestone, Black, Dark Bronze, Capitol Tan, Off-White, Almond, Beige, Coping Stone, Aluminum Stone, Redwood Tan, Hartford Green. |
| Yield | Linear Metre of Sealant per Litre Linear Feet of Sealant per Cartridge |
| Width | Depth |
| mm (in) | 6 (¼) 13 (½) | 6 (¼) 13 (½) |
| 6 (¼) | 24.8 24.4 |
| 13 (½) | 12.4 6.2 |
| 19 (%) | 8.3 4.1 |
| Shelf Life | Cartridge/sausage: 12 months; pail: 9 months - in original, unopened packaging. Store between 4 and 23°C (39 and 73°F). Condition product between 18 and 23°C (65 and 73°F) before using. |
| Application Temperature | 4 to 38°C (39 to 100°F). Sealant should be installed when joint is at mid-range of its anticipated movement. |
| Properties at 23°C (73°F) and 50% R.H. | Service Range -40 to 77°C (-40 to 170°F) |
| Curing Rate | Tack-free time 3 to 6 hrs (TT-S-00230C) |
| Tack-free to touch 3 hrs |
| Final cure 7 to 10 days |
| Shore A Hardness ASTM D2240 21 days | 20 ± 5 |
| Tensile Properties ASTM D412 21 days | Tensile stress 0.86 MPa (125 psi) |
| Elongation at break 700% |
| Modulus of elasticity 25% 0.13 MPa (20 psi) |
| 50% 0.24 MPa (35 psi) |
| 100% 0.34 MPa (50 psi) |
Priming is not usually necessary. Most substrates only require priming if testing indicates a need or where additional information.

Note: Most Exterior Insulation Finish System (EIFS) manufacturers recommend the use of a primer. When EIFS manufacturer specifies a primer or if on-site bond testing indicates a primer is necessary, Sikaflex 202 primer is recommended. On-site adhesion testing followed by a 28-day cure time is recommended prior to the start of a project.

Application
Recommended application temperatures between 4 to 38°C (39 to 100°F). For cold-weather application, store uncurled material can be removed from equipment and tools using Sika® Equipment Cleaner. Cured material can only be removed manually or mechanically. For removal of uncured material from hands and sensitive surfaces, use Sikaflex® Hand Cleaner.

Limitations
- Allow 1 week to cure under standard conditions when using Sikaflex® 15LM in total water immersion situations and prior to painting.
- When overcoating with water-, oil- and rubber-based paints, compatibility and adhesion testing is essential.
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm of chlorine.)
- Maximum depth of sealant must not exceed 13 mm (1/2 in); minimum depth is 6 mm (1/4 in).
- Avoid contact with materials or surfaces impregnated with, or containing, oil, asphalt, tar or bituminous substances.
- Do not apply or cure in the presence of uncured silicone sealants, alcohol and other solvent cleaners.
- Do not apply when moisture-vapour-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- Some minimal surface skinning of product may be present in bulk packaging (pails, drums) within its shelf life. Cut and discard cured material to expose the uncured product that still may be used.
- Use opened cartridges and uni-pac sausages the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White colour tends to yellow slightly when exposed to ultraviolet rays.
- Light colors can yellow slightly if exposed to direct gas fired heating elements prior to formation of initial skin.
- The ultimate performance of Sikaflex® 15LM depends on good joint design and proper application to properly prepared joint surfaces.
- The depth of sealant in horizontal joints subject to traffic is 13 mm (1/2 in).
- Do not tool with detergent or soap solutions.
- The ultimate performance of Sikaflex® 15LM depends on good joint design and proper application. With joint surfaces properly prepared and sealed, movement of 100% - 50% can be tolerated.
- Certain substrates require the use of a primer. Please consult the Sikaflex® Primers Product Data Sheet or Sika Canada’s Technical Services.
- Although applying sealants over paints, sealers or coatings is not recommended within the industry, where it cannot be avoided, it is always necessary to test for adhesion. It should also be recognized that the existing paint, sealer or coating will dictate bond values and possibly the integrity of a subsequently applied sealant and thus the performance of the joint.

Caution
Avoid contact with eyes and skin. Can cause allergic reactions and sensitization. Consult product label for additional information.

First Aid
In case of skin contact, wash with soap and water. For eye contact flush immediately with plenty of water for at least 15 minutes. Contact a physician. For respiratory problems, transport victim to fresh air. Remove contaminated clothing and wash before re-use.

For more information, consult Sika Material Safety Data Sheet.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika’s current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelf life. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, or can be inferred either from this information, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

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