



Equipment Specification
Document No.: 4350.157
Item No.: 038-83149
Asset Suite: 83149
Originating Department: Distribution Engineering



Elastomeric Joint Sealant

1. Introduction

This is a general specification that covers the minimum requirements for elastomeric joint sealant to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general mechanical characteristics of the material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to LUMA on previous orders, will not have to furnish samples at bid opening. The material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Quantity/Literature

Descriptive and technical literature must be supplied by vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 4.2. Labels and tags shall be waterproof.

5. Equal or Approved Equal to

Sika Corporation – Sikaflex 1a-aluminum gray or black

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6. Packaging

All material and equipment shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

7. Number Per Package (Logistics)

- 7.1. As requested by LUMA Energy.
- 7.2. Standard package: One (1) box contain twenty-four (24) 10.1 fl. oz. (300 mL) Cartridges.

8. Acceptance Criteria

- 8.1. Test required: certified by external laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:
 - a. ASTM C 920, Type S, Grade NS, Class 35, use NT, A, M – Properties of elastomeric joint sealant.
 - b. ASTM D412 – Standard test methods for vulcanized rubber and thermoplastic elastomers—tension
 - c. ASTM D-624 – Standard test method for tear strength of conventional vulcanized rubber and thermoplastic elastomers
 - d. ASTM C-661 - Standard test method for indentation hardness of elastomeric-type sealants.
 - e. ASTM C-719 – Standard test method for adhesion and cohesion of elastomeric joint sealants under cyclic movement.

9. Description

- 9.1. Elastomeric joint sealer is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant to be used on joints between electrical equipment enclosures and concrete pads.
- 9.2. Use in the installation of switching units, pad mounted transformers, translosures, and other equipment.
- 9.3. Joint Sealant must be designed for joints where maximum depth of sealant will not exceed 1/2 in.
- 9.4. Shall have high elasticity, flexible consistency with exceptional cut and tear resistance.

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- 9.5. Must serve as an elastic adhesive between materials with dissimilar coefficients of expansion.
- 9.6. Must be capable to bonds construction material without a primer.
- 9.7. Must have excellent resistance to aging, weathering.
- 9.8. Must have good resistance to water, diluted acids, and diluted alkaline.
- 9.9. Curing time must be as follow:
 - a. Less than 3 hours for tack-free to touch
 - b. Less than 7 days to full cure
- 9.10. Sealant color shall be aluminum gray or black.

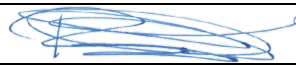
10 Inspection

The acceptance of any material or equipment shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such materials were found later to be defective.

— End of Specification —

Document History

Version	2
Date	26/30/2022
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Appendix

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Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.157).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM)		
3	Description	Joint Sealant must be designed for joints where maximum depth of sealant will not exceed 1/2 in.		
4	Curing time	<ul style="list-style-type: none">• Less than 3 hours for tack-free to touch• Less than 7 days to full cure		
5	Resistance	Water, Diluted Acids, and Diluted Alkaline		
6	Sealant color	Aluminum Gray or Black		