



Israel Electric Corp. Ltd.
Generation & Energy Group
Generation Division
Chief Chemist Dpt.



Specification No. 675

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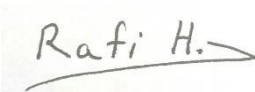
Technical Specification for Chemicals and similar materials

Category: Sealing compound

Cancels and replaces Specification No. 675 version 02

IEC Specification

Single component polyurethane based sealing compound

	Name	Date	Signature
Updated by	Efrat Brayer	10/12/2024	
Checked by	Dr. Rafi Halau	12/12/2024	
Approved by	Pery Shushani	12/12/2024	

1. **Purchaser:** Israeli Electric Corporation (IEC)

2. **Scope**

This specification covers the requirements for a single component polyurethane based sealing compound, suitable for crack and seam sealing.

3. **IEC Catalogue number**

Catalog No.	Description
4019113	Single component polyurethane based sealing compound, Package: 290-330 mL

4. **Physical and Chemical Requirements**

4.1 The sealant shall be a single component polyurethane based sealing compound, suitable for crack and seam sealing.

4.2 The proposed product shall comply with the physical and chemical properties mentioned in table 1 and table 2 (see Appendix No. 1).

5. **Packaging and Marking**

5.1. The sealant/adhesive shall be supplied according to the package sizes mentioned in paragraph 3.

5.2. Each package shall be legibly and durably marked with at least the following details:

- Product Name
- Manufacturer's Name
- Part Number
- Material description and concentration
- Net weight or Net volume of package
- Distinctive lot or batch number
- Date of manufacture
- Safety Marking

5.3. Marking shall be made by stenciling or other similar process and shall be waterproof.

6. Quality Assurance

- 6.1. The manufacturer shall have ISO 9001 quality management certificate for production of industrial chemicals *.
- 6.2. The quality of the product is under the responsibility of the supplier

7. Tender Documentation

The Supplier shall submit with its offer to the tender the following documents in their latest version:

- 7.1. Manufacturer's Technical Specification (TDS), containing at least, the data required in IEC specification.
- 7.2. Manufacturer's Safety Data Sheet (SDS).
- 7.3. Manufacturer's ISO 9001 quality management certificate for production of industrial chemicals *.
- 7.4. Certificate of analysis of the sealant from certified laboratory** for tests in this field, containing at least the data required in IEC specification.
- 7.5. Manufacturer's Part Number (P/N).

8. Delivery Documentation

Each delivery shall be accompanied by the following documents:

- 8.1 Manufacturer's Technical specification (TDS) of the sealant, containing at least, the data required in IEC Specification.
- 8.2 Certificate of analysis of the sealant from certified laboratory** for tests in this field, containing at least, the data required in IEC Specification.
- 8.3 Certificate of Compliance (COC) of the sealant with IEC specification, from certified laboratory** for tests in this field.
- 8.4 Manufacturer's Safety Data Sheet (SDS) for the sealant

Remark *

The date of validity of the certificate and edition of ISO 9001 standard shall be valid on the last date for submission of proposals in the tender.

The certifying body must be accredited by an accreditation body that is a member of International Accreditation Forum Multilateral Arrangement (IAF-MLA).

Remark **

Certified Laboratory is a laboratory with quality management system which meets with ISO 9001 requirements relevant for laboratory tests and/or laboratory services.

9. References

- ASTM D2240 – Standard Test method for Rubber Property – Durometet Hardness
- ISO 868- Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)
- ASTM D412 – Standard Test Method for Vulcanized Rubber abd Thermoplastic Elastomers – Tension
- DIN 53504- Testing of rubber - Determination of tensile strength at break, tensile stress at yield, elongation at break and stress values in a tensile test

Appendix No. 1: Declaration of the manufacturer

Table No. 1: Declaration Concerning Technical Requirements of Delivery

Requirement	Yes/No
IEC catalog No. 4019113 Package: 290-330 mL	

Table No. 2: Technical requirements of proposed product

Property	Requirement	Manufacturer's Data
Application temperature [°C]	5 to 30	
Useful temperature range [°C]	-(40) to 80	
Skin over time [minutes]	Max. 20	
Curing rate (20°C-25°C / 50%-65% R.H.) [mm/day]	Min. 2	
Hardness [Shore A] (ISO 868, ASTM D2240 or equivalent)	30 to 50	
Elongation to break (ASTM D412, DIN 53504 or equivalent) [%]	Min 350	
Shelf life in original unopened package, at the time of delivery [Months]	Min. 9	

Name of Manufacturer: _____

Signature of the Bidder or Quality Assurance Manager of the Manufacturer: _____

Date: _____