



TECHNICAL DATA SHEET

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Revised January 2008

E40 WEATHERSEAL LMN SILICONE SEALANT.

1. PRODUCT DESCRIPTION:

E40 LMN is an easily applied, one part neutral curing low modulus silicone sealant. Outstanding adhesion to most common construction substrates, reacting with atmospheric moisture to form a durable and flexible seal.

E40 LMN silicone sealant can withstand movement of +/- 20% in constant service, throughout a wide temperature range.

2. PROPERTIES:

E40 combines the advantages of primerless adhesion and neutrality.

Key performance : UV resistant, durable, unaffected by high or low temperatures, high elasticity and low odour.

Once cured, E40 is highly resistant to exposure from sunlight, rain, snow and ozone and

3. APPLICATIONS:

Key Applications :

GLAZING, CONTRUCTION, JOINT SEALING, BONDING, ASSEMBLY, PERIMETER POINTING

4. CHARACTERISTICS:

Type of sealant.....	Alcoxy Neutral
Density, approx, ISO1133 method B.....	1.00
Sag mm, ISO 7390.....	<2
Tooling Time, 23°C/50°C rel.humidity.....	15 mins
Tack Free Time	8 mins
Application temperatures.....	+5°C to +40°C
Shore A hardness, approx, DIN 53505.....	25
Full Cure.....	1—5 days
Mechanical properties ASTM D 412 die C:	
Modulus at 100% elongation, approx.....	0.5 MPa
Tensile strength, approx.....	1.5 MPa
Elongation at break.....	>400%
Mechanical properties on test samples in accordance with ISO 8339 Glass Substrates;	
Tensile Adhesion Modulus at 100% elongation,	0.44 MPa
Tensile Adhesion Strength at break	0.65 MPa
Tensile Elongation at break.....	250%
Peel Adhesion Strength ASTM C 794.....	4 kn/m



5. CONFORMITY TO SPECIFICATIONS:

E40 conforms to the requirements of ISO 1160, BS5889.

6. WORKING PROCEDURE:

Surface Preparation:

All surfaces must be clean, dry and free from dust or traces of contaminants, which may effect adhesion.

To degrease, wipe with a pad soaked in solvent then with a clean cloth.

Dust should be removed using oil-free compressed air.

E40 sealant does not require a primer on most common substrates, except in the case of immersion, mainly with porous substrates. Please consult us for more information.

The primer should preferably be applied using a soft hair paintbrush. In the case of particularly porous substrates, a second coat may be applied after the first one has dried.

Joint dimensions:

The joint movement capability of sealants in addition to local regulations must be considered. In order to allow the sealant to operate under the best possible conditions, the minimum cross-section of the seal should be 5 x 5mm. For seals wider than 12mm, the thickness will generally be determined as being half this width.

Coverage of sealant per standard cartridge approx 11 linear metre for a 6mm diameter bead;

Applying The Sealant:

Once a seal backing material has been put in place (closed cell polyethylene foam with surface skin or open cell polyurethane foam), the sealant should be applied ensuring that the seal is completely filled. Tool the seal to ensure good contact between the sealant and the bonded surfaces. This should be carried out using a dry spatula before the surface skin is formed.

Areas soiled with fresh sealant may be cleaned with a dry pad or a pad soaked in a solvent (compatible with the substrate). Any cured sealant can be removed by scraping (e.g. using a razor blade)

7. LIMITATIONS OF USE:

E40 LMN sealant must not be used in contact with materials which may exude certain of their components over time or with copper based metallic substrates. It is not recommended for use when there is any risk of abrasion.

E40 LMN sealant must not be used in the manufacture of aquariums or in sealing swimming pools. For any immersed type of application, please consult us.

E40 LMN sealant must not be used applications in permanent contact with food products.

E40 LMN sealant must not be painted (poor covering and adhesion of the paint). In the event of its application on alkyd paints (glycerophthalic), slight yellowing of the paint may appear where in contact with the seal.



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8. AVAILABLE COLOURS:

E40 is available in white, translucent, mahogany. Special colours on request

9. PACKAGING:

E40 LMN sealant is supplied Standard cartridges, boxed in 25.
Full pallet quantity is 1200 cartridges (48 boxes).

10. STORAGE AND SHELF LIFE:

E40 LMN has a shelf life of 18 months from its date of manufacture (Date of manufacture is shown on top of packaging).
IFI Ltd guarantees the product for 12 months from the shipment date, when stored at a temperature below 30°C in its original, unopened packaging.
Once the packaging has been opened, the product must be used as soon as possible.

11. SAFETY

Consult the Material Safety Data Sheet for E40 LMN sealant.

The information provided in this Technical Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the content of the Technical Data Sheet.



IFI Limited
Rutland Business Park
Newark Road
Peterborough
PE1 5WA
United Kingdom

www.ifi.eu

Sales Phone: 01733 847520

Sales Fax: 01733 343465

Email: ifi@ifi.eu