



TECHNICAL DATA SHEET

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Revised January 2008

E30 BUILDERS SEAL LMA SILICONE SEALANT.

1. PRODUCT DESCRIPTION:

E30 LMA is an easily applied, one part acetoxy low modulus silicone sealant. Outstanding adhesion to most common construction substrates, reacting with atmospheric moisture to form a durable and flexible seal. Suitable for internal and external applications.

E30 LMA silicone sealant can withstand movement of +/- 25% in constant service, throughout a wide temperature range. Resistance to severe weathering is excellent.

2. PROPERTIES:

E30 has outstanding adhesion to glass, glazed surfaces, ceramic tiles, many plastics and many paints, E30 has low shrinkage on curing and is also abrasion resistant.

E30 has excellent weatherability and is virtually unaffected by UV, radiation, ozone, rain, snow, sunlight and extremes of temperature. Even after many years in service, seals remain fully functional.

3. APPLICATIONS:

E30 is a high performance sealant and is particularly intended for all glass constructions.

E30 is suitable for use on a wide range of non-porous substrates such as glass, coated glass, ceramic tiles, enamel, painted surfaces (wood and others), aluminium, steel and many plastics. In some cases, metal and plastic substrates will require priming.

4. CHARACTERISTICS:

Before Curing:

Consistency (ISO 7 390, Profile U 20)..... Non sag

Curing:

Skin formation time at 23°C/50% rel.humidity, mins, approx.... 9

Tackfree time at 23°C/50% rel.humidity, mins, approx..... 20

After Curing;

Shore A hardness (ISO 868), approx..... 20

Joint movement capability, (ISO 9047) %..... +/-15

Joint movement capability, (TT-S-001543 A) %..... 15

Mechanical properties on a 2mm thick film (ISO 8 339-A):

Modulus at 100% elongation, N/mm², approx..... 0.5

Tensile strength, N/mm², approx..... 2.0

Elongation at break % approx..... 450

Mechanical properties on samples in accordance with ISO 34-C;

Tear strength, N/mm², approx..... 4.5

Mould resistance (ISO 846)..... Very good

Shelf life when stored at 25°C max..... ≥24 months



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5. CONFORMITY TO SPECIFICATIONS:

E30 LMA conforms to the requirements of ISO 11600 G 25LM, BS5889 (1989) type B, TTS 001543A (class A), TT-S-00230C (class A), DIN 18 545 (type E), ASTM C920 (type S).

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 dry with a clean cloth.

Dust should be removed using oil-free compressed air.

E30 LMA sealant does not require a primer on enamels, glass or ceramic tiles. Certain substances such as cast, extruded or anodised aluminium, steels, ferrous metals, painted and most rigid plastics, concrete, wood may require priming first. 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 and all air pockets or voids are eliminated. 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:

E30 should not be used sensitive surfaces which could react with the acetic acid which is released during cure, nor should it be used on materials where migration of constituents can take place, e.g. certain rubbers. Light coloured E30 should not be used on EDPM or neoprene as these may cause the sealant to turn yellow.

E30 is not recommended for structural glazing applications.

E30 must not be used on prestressed polyacrylate elements as it may cause environmental stress cracking (crazing).

E30 is not recommended for use on natural stone, such as marble, granite and quartzite, as it may cause staining.

Do not use E30 for direct contact with metals such as lead, copper, brass and zinc, as it may lead to corrosion.

Before using E30 on the edge of laminated glass, we recommend that you contact IFI Ltd for detailed information.



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8. AVAILABLE COLOURS:

E30 LMA is available in white, translucent and mahogany.

9. PACKAGING:

E30 is supplied in standard cartridges, boxed in 25.
Full pallet quantity is 1200 cartridges (48 boxes).

10. STORAGE AND SHELF LIFE:

E30 has a shelf life of at least 24 months from its date of manufacture, if stored in tightly closed original containers under cool (below 25° C) and dry conditions. (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.

If the material is kept beyond the shelf life shown on the product label, it is not necessarily unusable, but quality control should be performed on the properties relevant to the application.

11. SAFETY

Consult the Material Safety Data Sheet for E30 LMA Silicone 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.



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