

Technical Data Sheet

EPIFLEX

Jointing Mastic

DESCRIPTION

Epiflex is a 'traffic grade' polyurethane-modified, epoxy flexible jointing compound. It has been designed to provide excellent chemical resistance and durability, together with a high degree of flexibility, making it suitable for sealing floor joints subject to on-going movement. Epiflex is used as a matching joint sealant for our full range of resin flooring systems and industrial tiling systems.

KEY BENEFITS

- Good flexibility
- Chemical resistant
- Highly durable
- Easy to apply
- Good colour matching to resin flooring range
- Solvent-free

TECHNICAL DATA

John Lord is an ISO 9001:2000 accredited company and all John Lord products are manufactured strictly to ISO quality standards.

Performance Data

Tear Strength (BS2782):	840 N/m
Tensile Strength (BS2782):	23 N/cm ²
% Elongation at break (BS2782):	70/90%
Shore 'D' Hardness:	40-50
25 % Modulus of Compression:	8 N/mm ²
Compression set at 25%:	3% after 24 hrs
In-service accommodation:	15-20%
Temperature Resistance:	Constant from -10°C to 85°C.
Flash Steam Cleanable:	Yes
Water Permeability:	Nil
Pot Life once opened:	50-70 minutes

All figures are measured and expressed as per laboratory conditions. Actual performance may vary from the above values depending on site conditions.

Physical Properties

System Details:

Finish:	Smooth, semi-gloss finish
Min. Joint Depth:	15mm
Joint Width:	5mm – 50mm
Standard Colours:	Buff, Cream, Red, Green, Grey, Terracotta
Optional Variations:	Addition of atomised silica to provide thixotropy

Chemical Resistance

Resistant to a wide range of acids, alkalis, oils, greases, salt solutions, fuels and some solvents. For full details visit our website: www.john-lord.co.uk/products/technical-guides.php or consult John Lord Technical Dept.

Curing Time

Joints can go into service after the following minimum cure periods at 18°C and above:

Light traffic:	24 hours
Heavy traffic	48 hours
Full Chemical Cure:	7 days

Shelf Life / Storage

The product should be kept in its original unopened container until use.

The product should be stored in weather tight conditions, at temperatures between 10°C and 25°C, avoiding direct sunlight. Under these conditions this product has a shelf life of up to 12 months.

Pot life once opened: 50-70 minutes

In-Service Maintenance

Good housekeeping and regular cleaning can considerably extend the service life of a floor, will enhance the floor's appearance and reduce soiling tendencies.

Suitable cleaning methods for this product include:

- Rotary scrubbing machine and /or hot water washing (up to 60°C) with suitable detergent/ sterilant products – see John Lord Cleaning Guide for further details
- Flash steam cleaning is suitable on an occasional basis

APPLICATION INFORMATION

John Lord recommend that all products are installed by their own Contracts Department. John Lord Contracts Department provide a professional service with experienced

Project Management supervision and skilled, trained and NVQ /CSCS approved applicators.

Suitable Applications

- Wet / Dry Processing areas inc. Food Processing
- Breweries / Dairies
- Manufacturing Facilities
- Chemical Processing
- Warehousing
- Pharmaceutical production facilities
- Clean rooms
- Workshops
- Highly trafficked floor areas

Substrate Requirements

Epiflex is suitable for filling joints in polyurethane, epoxy, polymer modified, granolithic, metal and concrete floor and wall finishes subject to their soundness for heavy industrial use. Substrates should be free from dust, rust and contamination, and free from any unseen defects such as structural instability or intermediate delamination. Substrates should be free from rising dampness and moisture.

Joint Preparation

Careful preparation of the joint is essential. Joints should be thoroughly cleaned out and/or saw cut to the required dimensions. All joint faces should be ground clean and then thoroughly vacuumed. Metal faces should be de-greased with solvent following grinding and vacuuming.

Application Technique

Temperature: Air temperatures should be maintained between 10°C and 30°C during the application and curing period of this product. Materials should be kept in a warm

area of 10°C minimum temperature for 12 hours prior to application.

Priming: Normally no primer is required, however porous substrates should be primed with a single coat of Epigard Fastrac primer.

System: Add the full contents of the hardener container to the full contents of the resin container and mix thoroughly with a slow speed electric paddle drill until an even consistency is reached. Once mixed, pour the Epiflex into the joint to the level of the surrounding floor. In order to obtain a straight edge joint, the edges may be masked using a self-adhesive tape. Remove masking tape before initial cure. It may be necessary to top up the level of the joint as time will be required for the material to flow into and fill an irregular joint. Epiflex can be applied to joints between 5mm and 50mm wide. A square joint geometry is recommended for joints of more than 25mm in width. The minimum joint depth should be 15mm where there is solid support ie. concrete, polymer modified or granolithic screed. Where compressive filler is already present, the minimum depth of sealant required is 25mm to prevent shearing from joint sides.

Precautions

Appropriate PPE such as gloves, goggles and barrier cream should be worn during mixing and application of this product. Product should not come into contact with the skin or eyes, or be swallowed. Avoid inhalation.

For full health and safety hazard information, please refer to the John Lord Safety Data Sheet (SDS) for each component of this product. COSHH and SDS documents can be obtained from our Bury Office or via our website www.john-lord.co.uk.

Statement of Responsibility

The technical data and application information within this John Lord Technical Data Sheet is provided as an introduction to the system only and may vary according to on-site or environmental conditions. As the information provided is of a general nature, no guarantee is implied and it is the responsibility of the client or user to discuss in detail with John L. Lord & Son, the suitability of the product for a particular application or requirement beforehand. John L. Lord & Son cannot accept any responsibility of work and the subsequent performance of their systems that are not controlled by their own contracting services.

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