

## Epojet LV

### Building Product Information Requirements Compliance Statement

Date: 26/10/2023 (version 1)

Product Name: **Epojet LV**

Product identifier: **Epojet LV**

#### Product Line

Epojet LV is a two-component epoxy resin, with low viscosity for injection in microcracks.

#### Product Description

Epojet LV is two-component epoxy resin (component A – resin and component B – Hardener mixed together to be used for crack repairs. Once mixed, Epojet LV becomes very fluid that it can easily penetrate even in microcracks. It meets and complies with minimum requirements laid in EN 1504 -5 (Concrete Injection). Epojet LV polymerises without shrinkage and has good insulation properties and high mechanical strengths. It is used for structural crack repairs of beams, columns, and floors by low pressure injection techniques. It can also be used for restoration of civil and concrete structures damaged by earthquakes, settlements, or impacts.

Epojet LV is available in 4kg kit and 2.5 kg kits.

Ancillary products used with Epojet LV – Crack Repairs

- Adesilex PG1 or Adesilex PG2 – thixotropic epoxy adhesive for sealing of cracks from the top before injecting Epojet LV using injectors.

Please refer TDS for areas of use, performance parameters and application procedure for this product. Alternatively request support at:

[www.mapei.com/nz/en/technical-and-commercial-support](http://www.mapei.com/nz/en/technical-and-commercial-support)

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MBP (NZ) Ltd.

Exclusive distributor of Mapei products in New Zealand  
88 Carbine Road, Mt Wellington, Auckland 1060, New Zealand  
T. +64 99211994 | F. +64 99211993 | [www.mbpnz.co.nz](http://www.mbpnz.co.nz)

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## **Relevant Building Code Clauses**

- B1 Structure
- B2 Durability
- C6 – Structural Stability
- F2 Hazardous Building Materials: F2.3.1

## **Contributions to Compliance**

### B1 Structure, B2 Durability

- Epojet LV meets the requirements defined by EN 1504-9 (“Products and systems for the protection and repair of concrete structures - definitions, requirements, quality control and evaluation of conformity - General principles for the use of products and systems”) and the minimum requirements claimed by EN 1504-5 (“Concrete injection”).
- Epojet LV is epoxy resin-based product. Generally, epoxy resin-based products are not flammable in the hardened state and do not contribute to fire. However, they typically soften at temperatures above 60°C. In a fire situation the Epojet deep in the concrete will be slow to reach this temperature. Therefore, in many cases, the fire performance of Epojet LV will be adequate. However, for any particular project the suitability of Epojet LV for meeting Clause C6 – Structural Stability in the project must be confirmed by a Structural Engineer
- Structural stability of structural members made up of reinforced concrete depends on the fire resistance of a particular structural member based on its composition such as size and type of aggregate, concrete cover and more as per NZS 3101.
- A Structural Design Engineer should specify the product for structural crack repairs based on the requirements of the structure in reference to the product performance prescribed in the TDS.
- Structural Engineer should review the NZ Building code clauses with reference to EN1504-5, NZS 3101:2006 to confirm compliance for specific application.

### F2 Hazardous Building Materials: F2.3.1

- Epojet LV being epoxy base product is hazardous during application. Therefore, appropriate health and safety precautions should be followed including wearing of appropriate personal protective equipment. Users should read the product’s Safety Data Sheet. Once Epojet LV is cured and hardened, it is not hazardous and does not give rise to harmful gases or substances when exposed.

**Scope and Design Requirements**

- A Structural Design Engineer should specify the product for structural crack repairs based on the requirements of the structure in reference to the product performance prescribed in the TDS.
- Epojet LV meets the requirements defined by EN 1504-9 (“Products and systems for the protection and repair of concrete structures - definitions, requirements, quality control and evaluation of conformity - General principles for the use of products and systems”) and the minimum requirements claimed by EN 1504-5 (“Concrete injection”).
- A qualified structural Engineer should check and confirm the compatibility of the product with other building components.

**Conditions and Limitations of Use**

- Do not use Epojet LV on dusty and crumbling surfaces.
- Epojet LV should not be used for sealing expansion joints.
- Do not use Epojet LV on wet surfaces.
- Do not use Epojet LV at temperatures below +10°C.

**Supporting Documentation**

The following additional documentation supports the above statements:

**Epojet LV - Technical Data Sheet (365-7-2013)**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/epojet-lv>

**Epojet LV - Safety Data Sheet (09/06/2021 - version 2)**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/epojet-lv>

**Contact Details****Manufacture location**

Mapei Malaysia Sdn. Bhd  
D3A-10, Block D3A,  
Dana 1 Commercial Centre,  
Jalan PJU 1A/46, 47301 Petaling Jaya,  
Selangor - MALAYSIA  
Tel + 603-7842 9098  
[mapei@mapei.com.my](mailto:mapei@mapei.com.my)  
<http://www.mapei.com.my>

**Importer NZ Address for Service**

MBP (NZ) Ltd  
88 Carbine Road  
Auckland 1060  
Tel 09 921 1994  
[www.mbpltd.co.nz](http://www.mbpltd.co.nz)  
[enquiries@mbpltd.co.nz](mailto:enquiries@mbpltd.co.nz)  
Importer NZBN: 8080877

**Warnings and Bans**

Epojet LV is not subject to a warning or ban under section 26 of the Building Act 2004.

**Version History**

<b>Version number</b>	<b>Written by</b>	<b>Checked by</b>	<b>Date issued</b>	<b>Changes from previous version</b>
VI 26/10/23	PM	PT	03/11/23	New document