

Lambert® Joint System

Flexible Expansion Joint Sealing System

www.lambertchemicals.com

Description The Lambert Joint System is a flexible, high performance joint sealing system designed to accommodate significant movement from cracks and irregular or high movement joints. When fixed to the joint, it allows considerable movement in more than one direction, while maintaining a high quality seal.

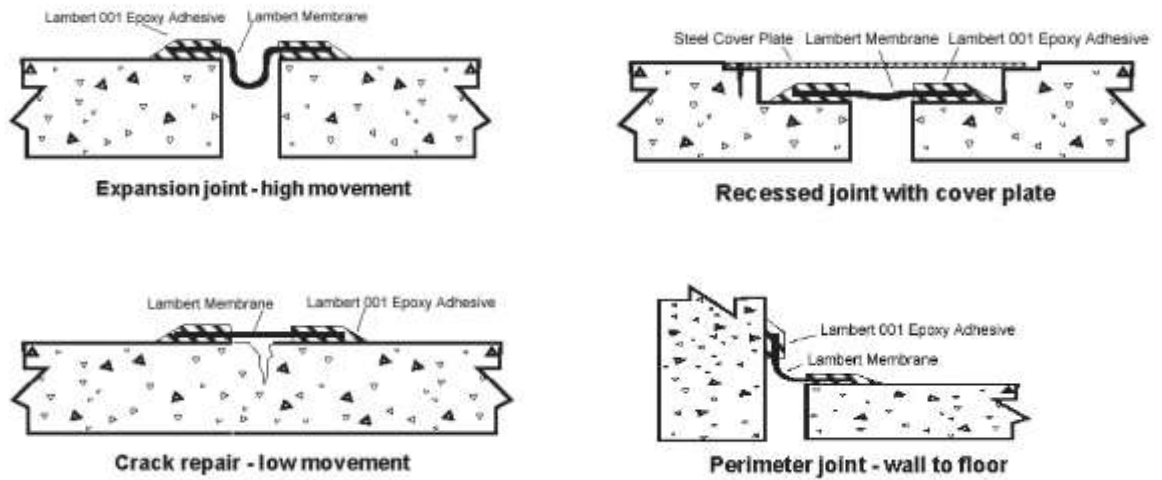
It is a multi-component system comprising:

- a) Lambert Membrane, a 1 mm thick chemical-resistant elastic sheet made from chlorosulphonated polyethylene (Hypalon).
- b) An epoxy resin adhesive, Lambert 001 Epoxy Adhesive.

Uses Lambert Joint System can be used on silos, roofs as well as water immersed applications such as tanks, reservoirs, pipelines and swimming pools where the joint movement may exceed the capability of conventional elastomeric sealants. Lambert Joint System can also be used to seal joints in car park decks, podiums, balconies, construction joints, connecting joints, tunnels, underground structures, and waste water treatment containment structures.

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- Advantages**
- ❖ Forms a tough, flexible joint flashing
 - ❖ Accommodates continuous, and pronounced cyclic movement
 - ❖ Range of sizes available to suit most applications
 - ❖ Weather-resistant, waterproof
 - ❖ Can be applied over joints containing joint sealants
 - ❖ Application to dry and damp surfaces
 - ❖ Root resistant
 - ❖ Excellent adhesion to most construction materials
 - ❖ Withstands UV light and is ozone resistant
 - ❖ Lambert Membrane can be heat welded for the continuity of long joint lengths
 - ❖ Perforations along the edges of the Lambert Joint system provide a mechanical fixing element in addition to the excellent chemical bond offered by the Lambert 001 adhesive
 - ❖ Resists many chemicals
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Typical Applications



Technical Data

Lambert Membrane – Hypalon Strip

Colour	Grey
Density (specific gravity) ASTM 0297	1700 kg/m ³
Tensile strength, ASTM D412	
Elongation at break	625 % min
Tear strength value, ASTM D624	40 kN/m
Low temperature flexibility BS 3424 Method 10	-30°C passed
Weather resistance, SIA 280 (accelerated test)	10,000 hours no deterioration
Slit water pressure test rating at 0.5N/mm ² , DIN 16938-6.3	Waterproof
Ozone resistance 3ppm, ASTM D1149	No cracks visible

Lambert 001 Epoxy Adhesive

Colour	Grey
Mix ratio	2 : 1 by volume
Pot life	76 minutes
Compressive Strength	83 N/mm ²
Tensile Strength	21 N/mm ²

**Method of
Uses**



1. Prepare the joint and surrounding surfaces in excess of the width of the Lambert Membrane to be used. Concrete substrates should be at least 14 days old prior to application and surfaces should be abraded to provide adequate key. All surfaces should be clean and sound, free of any dust, oil or other contamination. Any excess moisture on the surface must be removed by hot air or by wiping with a dry cloth.
2. Apply masking tape onto joint/crack so that it overlaps the joint by 5 mm each side. Apply tape to outer edges of area to receive epoxy adhesive so that the adhesive will overlap the membrane by 10 mm each side. For wide joints, a caulking detail should be formed.
3. Lambert 001 Epoxy Adhesive is a two-component system with the hardener in the lid and the resin component in the bucket. Transfer the contents of the lid into the bucket containing the grey paste and mix thoroughly to a uniform grey colour. In cold weather it is advisable to keep the material in a warm place for a few hours before mixing. This will make mixing easier. Use a mechanical mixer, e.g. a paddle attached to a slow speed drill.
4. Apply Lambert 001 Epoxy Adhesive to prepared surfaces on each side of the joint/crack as base coat using a steel float, scraper or spreader tool, to a minimum thickness of 1mm.
5. Remove centre masking tape immediately after applying Lambert 001 Epoxy Adhesive.
6. Position the Lambert Membrane onto the adhesive and squeeze into place by rolling under pressure. Ensure that all the air is expelled and that the Lambert 001 Epoxy Adhesive is forced through the edge perforations. Let the adhesive sets.
7. Apply one coat of Lambert 001 Epoxy Adhesive over membrane, approximately 2mm thick, extending surplus onto outer masking tape.
8. Remove centre release film of the membrane before epoxy adhesive sets.
9. Remove outer masking tape before curing. Feather edge if necessary.

Priming of concrete

For most applications the use of a primer is unnecessary, however in case where Lambert Joint system is being used in immersed conditions or in critical situation such as friable substrate or maximum movement, the concrete must be primed with Lambert 002 Epoxy Bonding Agent.

Welding

Lambert Membrane can be jointed by hot air welding to cater for any joint length. A electric hot air gun of the type used by vinyl flooring applicators is generally suitable for the task. The hot air gun should have a nozzle with a slot shaped outlet to spread the hot air across a broad fan. Create an overlap of at least 40mm.

Cleaning

Use Solvent to clean tools before the Lambert 001 Epoxy Adhesive sets. Hardened material can only be removed mechanically.

Supply	Lambert Membrane 1mm thick, 25 meter roll length 200mm width, customer width to order Lambert 001 Epoxy Adhesive 5 kg Pack
Coverage	The approximately coverage of Lambert 001 Epoxy Adhesive per linear meter of 200mm wide membrane is 0.5-1.0kg.
Health and Safety	Keep containers closed when not in use. Operatives are advised to use barrier creams and wear protective clothing including gloves and goggles or glasses. Any contact with skin should be cleaned with proprietary cleansing cream. If product enters the eye, wash with copious amount of clean water. Seek medical advice if discomfort continues.
Notes	The information, and, in particular, the recommendations relating to the application and end use of Lambert products, are given in good faith based on Lambert's knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respects of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request

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