Jean Lefebvre (UK)
Technical Consultancy
OUR TECHNICAL CONSULTANCY, SUPPORTED BY OUR INTERNATIONAL RESEARCH CENTRE IN BORDEAUX ALLOWS US TO DELIVER THE HIGHEST STANDARDS OF TECHNICAL SERVICE TO MEET THE INDIVIDUAL AIMS AND NEEDS OF OUR CLIENTS.

We are able to provide a wide range of material designs and performance testing to the highest standard, supported by UKAS accreditation.

Our design capabilities include:

- Bitumen and aggregate conformity testing
- Performance testing of bituminous materials, including Asphalt Concrete, Hot Rolled Asphalt, Stone Mastic Asphalt and Thin Surface Course Systems
- High modulus designs including EME2
- Cold recycled bound material design using foam bitumen, emulsion or hydraulic binders
- Slurry and micro surfacing assessments
- Airfield materials, such as Marshall Asphalt and Béton Bitumineux Aéronautique (BBBA)
LABORATORY

Our state-of-the-art laboratory in Cheshunt operates twelve large-scale test apparatus, and is capable of performing over 30 different tests, as well as specialist bituminous material designs.

Jean Lefebvre (UK) are a UKAS accredited testing laboratory (number 4201) for a range of performance testing. Our testing schedule is available on the UKAS website. Our laboratory management system is accredited/certified to ISO 17025, ISO 9001, 14001 and 18001 and we ensure we deliver all results to the highest quality standards.

Key performance testing we offer includes:-

- Indirect Tensile Stiffness Modulus
- Resistance to permanent deformation – Small device, large device and Submerged wheeltracking
- Water sensitivity – Indirect Tensile Strength, Duriez and HAPAS methods
- Indirect Tensile Fatigue Testing
- Compactability and air void measurement

We are also able to offer specialist slurry and micro-surfacing testing including material break time, cohesion and resistance to abrasion.

Our laboratory services include conducting individual tests, full mix designs to national/international standards and bespoke research and development projects.

JEAN LEFEBVRE (UK) CAN PROVIDE INDEPENDENT TECHNICAL ADVICE TO ENSURE THAT PAVEMENT AND MATERIAL SPECIFICATIONS PROVIDE A HIGH PERFORMANCE SOLUTION.
Research & Product development

INNOVATION IS AT THE HEART OF OUR COMPANY.

Our strength in technical expertise and knowledge allows us to continually research and develop new innovative products as well as focusing on different technical service capabilities.

This includes:

- Environmental Protection
  - Use of recycled and secondary aggregates
  - Reduction in noise emissions
  - Reduction in greenhouse gas emissions
  - Eco-designs

- Road Safety
  - Improved skid resistance
  - In-depth knowledge of surfacing resistance characteristics
  - Optimising visibility

- Road Structure Durability
  - Binder and polymer technology
  - Surfacing techniques and specialist product ranges
  - Waterproofing systems

WE HAVE PROVIDED MANY SPECIALIST INNOVATIVE PRODUCTS:

Thin Surface Courses: UL-M and Ultraphone

These BBA HAPAS certified thin surfacing systems use a range of innovative modified binder technology, improving longevity and providing quiet surfacing to reduce background and vibration noise.

Crack Inhibitor System: Flexiplast

Flexiplast is a two-layer flexible, waterproofing crack inhibitor system which combats reflective cracking, reducing deterioration.

Microsurfacing: Gripfibre

Gripfibre is a ‘second generation’ microsurfacing which provides an excellent compromise between technical characteristics and cost, especially in terms of skid resistance and durability. The innovative aspect of the product is the addition of acrylic fibres, these make it possible to apply gap-graded materials without the risk of segregation, ensuring a long lasting surface texture.

Thin Surfacing System: Fibrovia

BBA HAPAS certified thin surfacing system that uses an increased binder content, combined with cellulose fibres to provide a durable product with improved workability characteristics which is ideal for the urban environment.