

The busiest airfields trust Jointline.

Commercial & Defence Airfields



Safely Marking
The Way Ahead
jointline.co.uk



Working safely on the world's busiest airfields

Jointline are the aviation specialist for civil engineering, surface construction and preparation, line marking, grooving and joint sealing.

Every client and project is unique. We work with each client to tailor the broad range of line marking, civils and surface preparation services that we offer to deliver the best solution for the programme of works.

In our 30-year history, we have built up a broad and deep knowledge base and are renowned for our expertise and market-leading project delivery. This is why we are trusted by defence organisations and the biggest names in commercial aviation across the UK and the rest of the world.

Our fleet of purpose-built vehicles and highly-skilled security screened staff enable us to deliver your programme of works within the tightest operating windows negating downtime and keeping military operations and commercial flights disruption free. We are fast, efficient and flexible in the deployment of our work. We work with a 'right-first-time' culture of delivery with safety at the forefront of our minds at all times.

Civils & Groundworks

Jointline delivers bespoke civil and maintenance solutions to the aviation industry.

Within our separate Civil Engineering department, we deliver schemes both in-house and in co-ordination with specialist approved sub-contractors to uphold the highest working standards.

The services we offer range from minor to major engineering works and we operate in role of either main contractor or specialist sub-contractor.

Our Civil Engineering department has a particular specialism in airfield construction which complements our successful line marking, joint sealing and airfield grooving services.

Our works include but are not limited to:

- Concrete slab construction
- Concrete patch repairs using cementitious or epoxy mortars
- Asphalt and pothole repairs using HAPAS approved materials
- Road reconstruction
- Repair of surface water damage
- Drainage
- Kerbing & Block Paving



Surface Construction & Repairs

Jointline are the aviation specialist for surface construction, preparation and repair.

Runway construction, apron works, airport roadways and rehabilitation projects are one of the most complex and challenging tasks that an airfield can undertake. Jointline has years of experience in this area, which makes it well-equipped to tackle even the most difficult projects. In fact, many of Jointline's clients regard its runway construction services as some of the best in the business.

Services that Jointline offer include:

Concrete Bay Replacements & Repairs

Jointline can replace and repair concrete pads for airfields, ensuring that they are in a good condition and able to support airport operations over their design life. By replacing damaged pads, Jointline is able to reduce the amount of work that needs to be done to maintain the airfield, which in turn reduces the overall cost. Additionally, by repairing any problems that may arise, Jointline ensures that the airfield remains safe and operational.

Engineered Surfacing

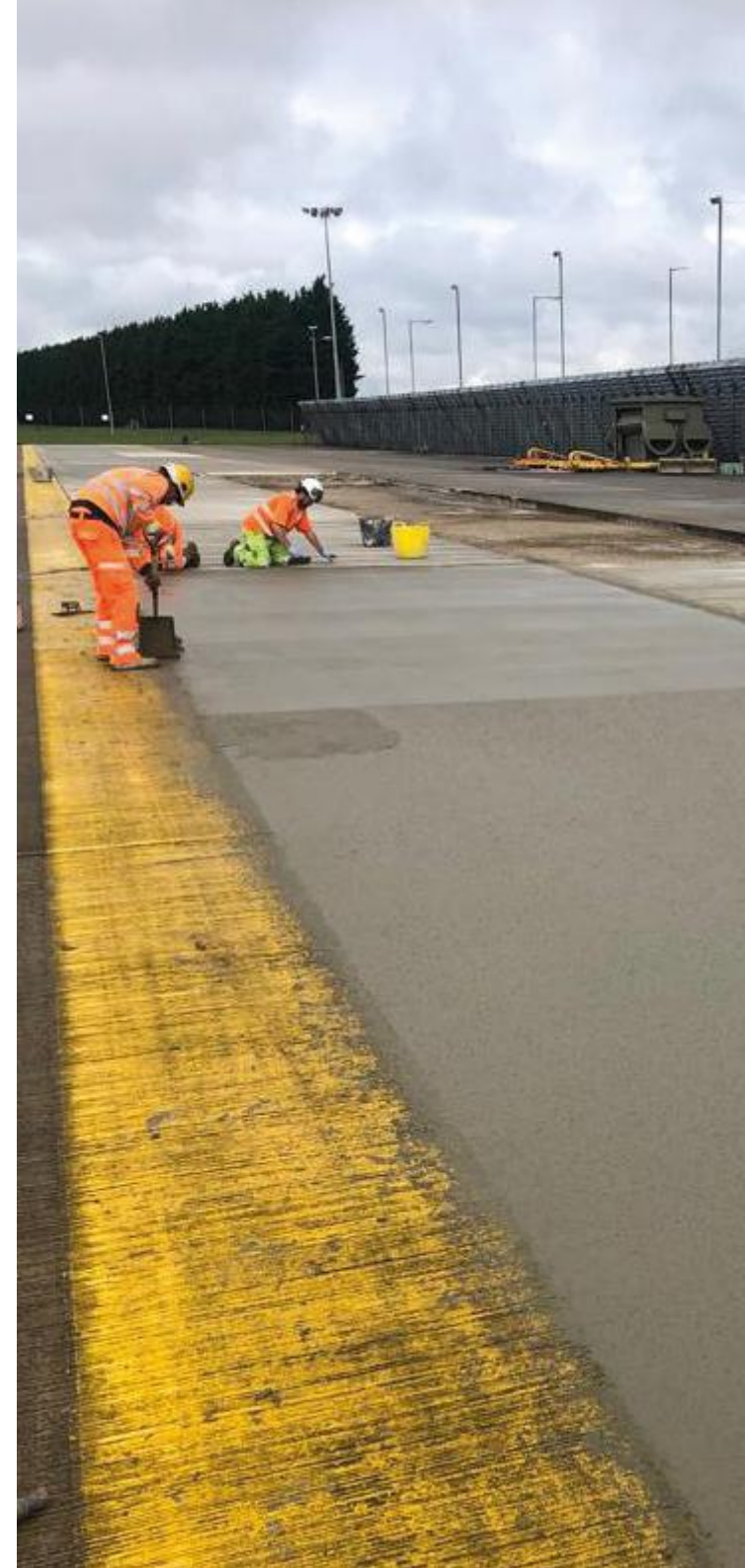
Surface degradation can have a number of negative consequences, including the loss of property value, greater maintenance costs, and increased risk of safety hazards. To combat these issues, engineered surfacing can be used to improve the appearance, durability, and functionality of surfaces.

Glass Grid Reinforcement

Glass grid reinforcement is an effective way to control reflective cracking in asphalt. They're particularly beneficial for areas that experience high levels of traffic and frequent exposure to sunlight.

Landside capabilities include:

- Construction of Surface Car Parks and Perimeter Roads
- Surface Dressing - Resin Bound / Bonded Surfacing
- Tar Spray & Chip Surfacing
- Specialist Surfacing Utility Reinstatements



Joint Sealing

Where you have new or existing construction joints in road surfaces made from asphalt or concrete it is necessary to fill and seal them appropriately.

Joint Sealing not only allows the surface to tolerate expansion and contraction but also protects the joint from water damage, prevents the joint from failing due to other surface applications such as de-icer or from surface spillages.

Jointline provide joint sealing in a variety of ways:

Hot Applied N1 and N2 Sealants

Hot applied N1 and N2 sealants are used to maintain and repair joints in concrete or asphalt surfaces and are particularly used on highways, airfields and car parks. These hot applied sealants are fully BS EN14188-1 compliant. They have excellent expansion and contraction qualities and are effective at preventing damage resulting from water and dirt. These joint sealants can be quickly and simply applied at any time of year and cure quickly, helping to minimise disruption to traffic or users of the area to be treated.

Cold Applied Fuel Resistant Joint Sealants

If the area to be treated has a high likelihood of fuel spillages i.e. aircraft fuelling areas, oil terminals, garage forecourts, parking and cargo areas then we would apply a fuel resistant sealant using a cold application method. As with the N1 and N2 sealants the contraction and expansion properties are excellent and provide joint protection from water, dirt and more importantly kerosene, petrol and aircraft fuel.

As well as simply sealing joints Jointline have specialist saw cutting equipment to;

- Create joints in new/green concrete to enable the surface to deal with expansion and contraction
- Chase out or existing concrete cracks and sealing them or overbanding them
- Reform existing joints to effectively reapply sealant.



Grooving

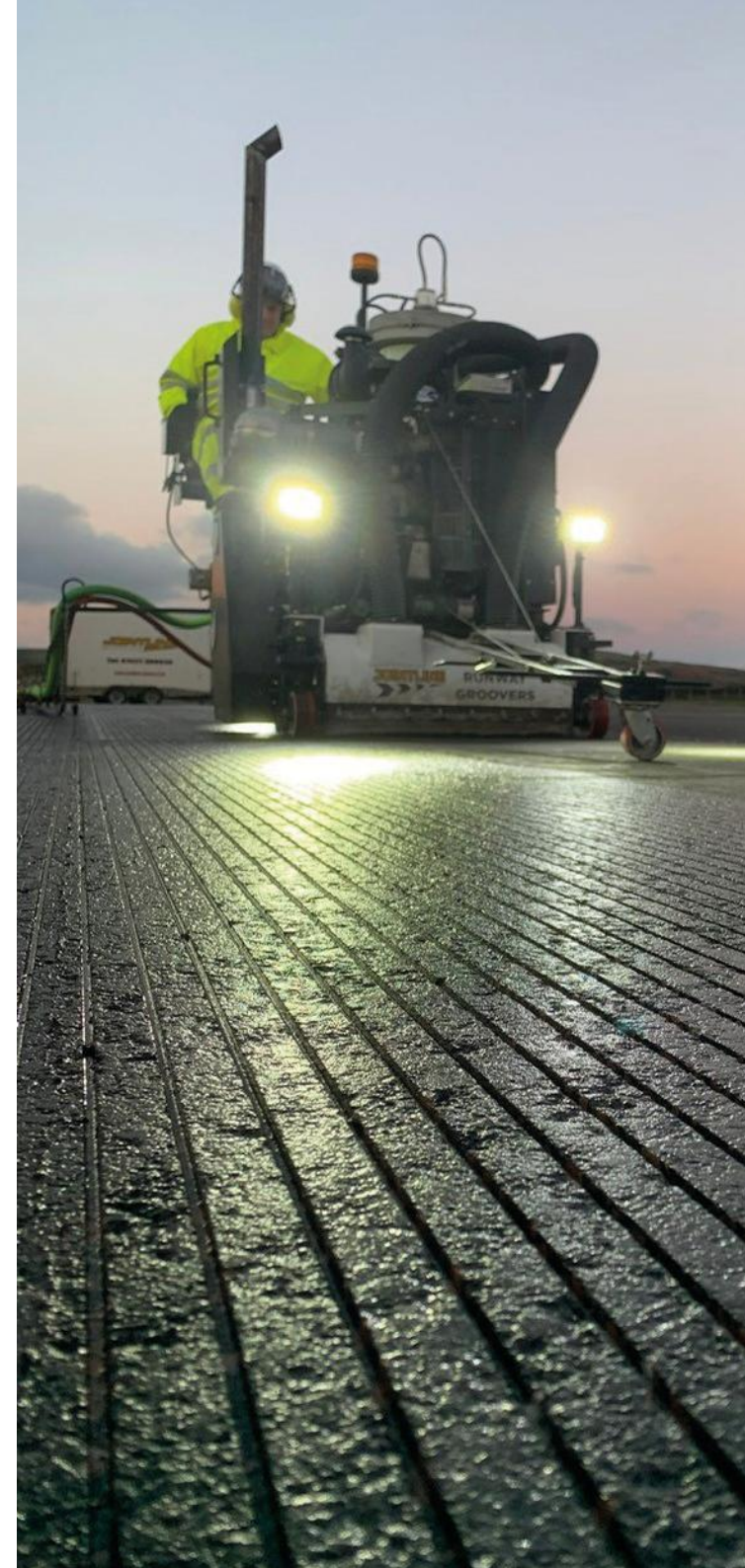
Grooving has become the proven, most cost effective way to increase the co-efficient of friction in the wet.

Airfield grooving is used to increase the friction of a wet surface by removing surface water. Jointline have many years experience at the installation of anti-skid grooving to asphalt and concrete runways at airfields both in the UK and Worldwide. It is also possible to install anti-skid grooving on highways to give additional surface grip.

Airfield grooving involves saw cutting horizontal grooves into the surface of a runway. This helps any water on the surface dissipate more quickly increasing surface friction and reducing the chances of aquaplaning. Grooving has become the proven, most cost effective way to increase the co-efficient of friction in the wet thus improving the take-off and landing distances of aircraft. Tests by NASA have proved that a grooved runway should finish with a co-efficient of friction which, in the wet, equates to 85% of that when it is dry.

For anti-skid grooving, we have an extensive selection of plant available including a fleet of the latest grooving machines. These machine, in addition to the provision of grooves to the required centre, pitch and depth specification will automatically vacuum up the resultant spoil. Each job is unique and we will identify the correct depths of grooves and groove spacing to maximise the efficiency of water dissipation for your surface.

Only operatives with the requisite ability and experience are employed by Jointline Limited on these contracts and we always work to the safest standards.



Overbanding

Jointline can protect your surfaces with our HAPAS approved materials.

Overbanding is a process used to seal cracks in a road or surface which may be:

- Spontaneous from wear and tear and require repair; or
- Where works have been carried out and the joint between the old surface and new surface need sealing

Overbanding these cracks is vital and serves to prevent damage and surface fretting from water, dirt or spillage penetration. Overbanding effectively seals the joint and overlaps the two sides of the joint up to 200mm. This ensures that nothing can get into the crack and further degrade the surface.

Overbanding these cracks is vital and serves to prevent:

1. Using hot applied Bituminous material to seal and overband the crack
2. Using cold applied resins

The method chosen will depend on the project characteristics; the type of materials either side of the crack to be overbanded and how the surface is used i.e. car park versus airport fuelling area.

Jointline take health & safety very seriously and both of their overbanding methods are HAPAS approved, with high skid resistance values necessary to conform to requirements. This helps prevent any road users from slipping or skidding on the overbanded area particularly in wet conditions.



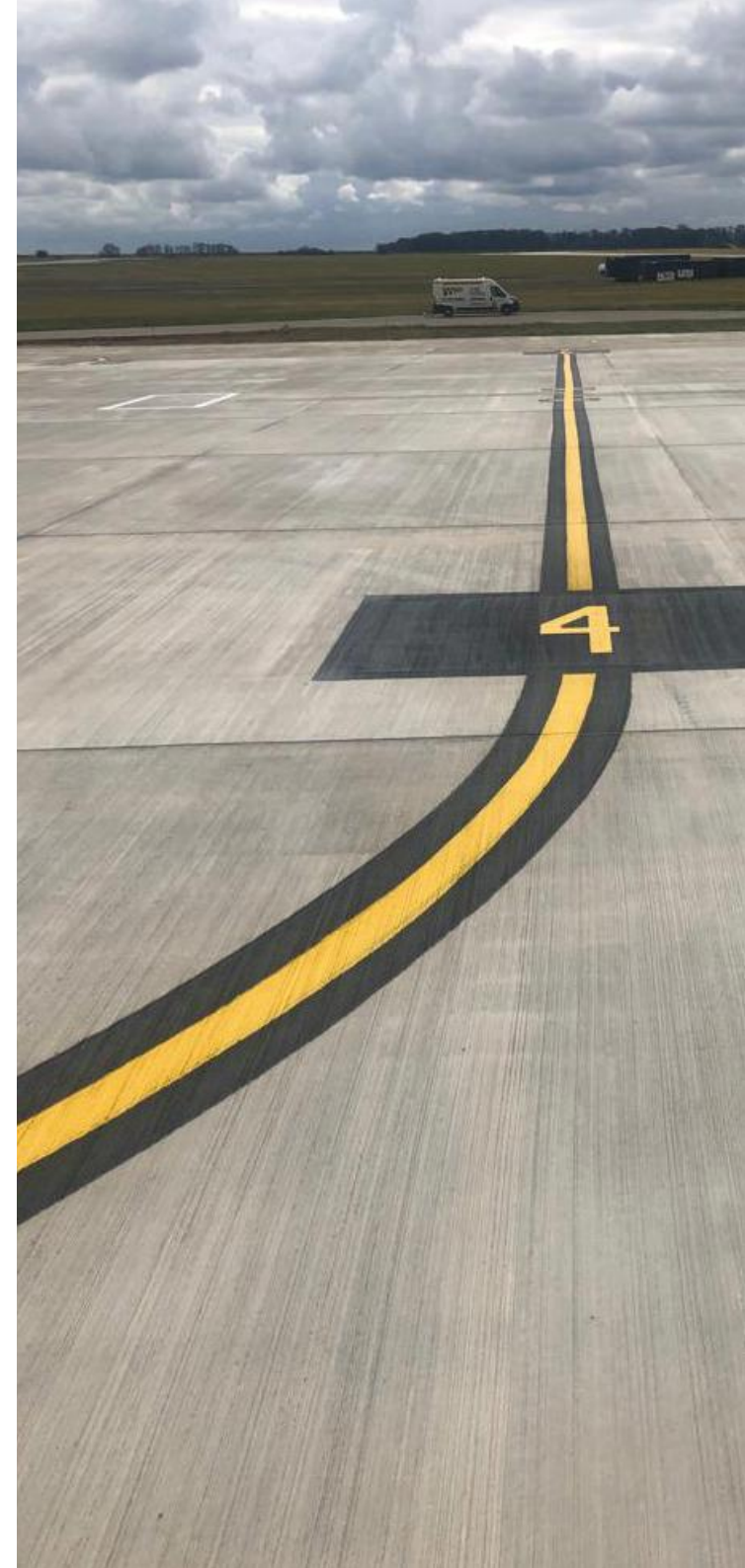
Airfield Line Marking

Jointline has vast experience in airfield and airport line marking, and we continue to be the market leader for the UK's airports, airfields and MOD bases.

Line marking is an essential element of the airfield infrastructure, from full runway markings to delineation of taxiway markings, or identifying any potential hazards. Jointline's experienced staff have the knowledge and expertise, along with state of the art equipment to implement surface markings which comply with strict regulations.

Our line marking complies with EASA, CAP168 and MADS where appropriate. This is a superior quality to conventional line marking material, combined with a unique grading of aggregates. This combination gives a high friction value where necessary, which brings it into line with the surrounding runway surfaces. By varying the size and amount of aggregates, friction values of between .65 and .8 using a grip tester can be achieved. We specialise in single pack epoxy and chlorinated rubber materials that are used in conjunction with calzined flint to enhance the friction values of the markings. These are used in place of traditional line marking materials such as thermoplastic, as they present a much less risk in the prevention of foreign object debris (FOD).

We invest heavily in the most up-to-date equipment to ensure we are capable of applying large volumes of material within the restricted windows of opportunity when required. Key to the implementation of new layouts or changes on airfields, Jointline has a range of removal techniques that can be used that comply with necessary legislation.



EXPERIENCED

INNOVATIVE

COLLABORATIVE

RESPONSIBLE

RELIABLE

SAFE

Mission Statement:

"We are committed to building long lasting, successful relationships with our stakeholders. Our mission is to become both an employer of choice and a supplier of choice, operating with integrity and putting people at the core of our business.

For us, it's personal."

Values:

We are **Experienced**

We are a trusted, well-established business built around highly skilled and talented people who excel at what they do. Our success is built on high levels of competency with strength and depth across every delivery stream resulting in a successful track record.

We're built on solid foundations.

We are **Innovative**

We foster agile ways of thinking to bring new ideas to life which shape the future of our industry. We provide customer focussed solutions that are unique to each scheme.

Our people learn, evolve and improve.

We are **Collaborative**

We improve customer experience by promoting an open working environment where knowledge and ideas are shared freely to create improved outcomes for all. We listen and learn together.

Teamwork makes us stronger.

We are **Responsible**

We care for our planet and seek to bring positive benefits to the communities that we serve. We value diversity, celebrate difference and offer an inclusive working environment. We invest heavily in formal training and apprenticeships.

We are ethical, honest and trustworthy.

We are **Reliable**

We do what we say we are going to do. We work hard to deliver schemes that are right first time and defect free.

You can depend on us to deliver.

We are **Safe**

We promote a safety led culture where people are empowered to check, challenge and change.

Safety starts with us!



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