

At Nexus, We Provide Surface Coatings to the Marine and Subsea Industries



Erosion caused by salt and chloride can cause problems for subsea companies. Damaged equipment and components make for an unsafe working environment, so you need to make sure that your assets are protected. Our anti-corrosion coatings improve the lifespan of your equipment by protecting it from the harsh subsea environment.

At Nexus, we specialise in providing surface coatings to the marine and subsea industries. Whether your components need anti-friction, anti-corrosion, or dry-film lubrication, we have the products you need. We're meticulous in ensuring that your equipment is treated with the most effective coatings, so you can rest assured that it receives the very best protection. We only use high-performance products like Everalik, Molykote and Xylan.

Our surface treatments will improve the lifespan of your equipment and protect it from damage caused by heat generation, erosion, galling of surfaces and inadequate lubrication.



Shot Blasting

We're able to blast a variety of different surfaces, including steel, low alloy and aluminium. We work with a range of clients in the marine industry and we adopt a flexible approach to shot blasting your surfaces. Whether you need a polished finish using small steel shots, or a rougher surface using steel grit, we can accommodate you.

Phosphate Coating

The main benefit of zinc phosphating is the corrosion and rust protection it offers metal components. At Nexus, we use phosphating as a pre-treatment to coating or painting and as a way of protecting against galling and rusting.

Repair and Refurbishment

In subsea conditions, eventually, the quality of your components will diminish. Salt water and other corrosive chemicals reduce the effectiveness of your equipment, which can affect the productivity of your business. At Nexus, we offer a repair and refurbishment service that will enhance the lifespan of your equipment.

To find out more about our surface treatments, give us a call on:

+44 (0)1569 765211, or email us at sales@nexusst.co.uk

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Shot Blasting Services for Surface Pre-Treatment and Cleaning

Shot blasting is a specialist surface treatment method used to clean and strengthen metal materials and prepare surfaces for coating. It's used in a wide range of industries including oil and gas, construction, and marine.



The process offers protection to metal surfaces and can act as pre-preparation for a variety of anti-corrosion and anti-friction coatings. It's one of the most effective and value for money surface preparation techniques on the market and is an ideal pre-treatment for operations like welding, enamelling, galvanising, electroplating and rubberising.

It's also one of the most environmentally friendly cleaning options as it doesn't use any harsh chemicals. Once a surface has been blasted, the area will be completely free from dust, scales and chemical deposits. The process doesn't damage or remove any virgin metal from the surface.

Phosphating strengthens the bond between the surface and any protective coating, whether it be paint, epoxy or dry-film lubricants. It improves the durability of the surface and increases its lifespan. It can also help detect any abrasions or faults in the surface.

We are able to blast a variety of surfaces, including, low alloy, steel and aluminium. We use a variety of shot materials that provide different surface conditions, dependant on your requirements.

At Nexus, we adopt a flexible approach and can use a variety of different media to create the desired surface finish. Whether you need a polished finish using small steel shots, or a rougher surface using steel grit, we can accommodate you.

We consider several factors when choosing blast media, including the mass of the particle, the speed at which it's blasted, the angle of blasting and the overall coverage of the shots.

From our facilities in Stonehaven, we're well-placed to provide a cost-effective blasting service to our customers. We work with clients in a range of industries including oil and gas, construction and marine.

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Molykote Anti-Friction Coatings for Components and Equipment

Molykote is an anti-friction coating that improves the durability of your components. The Molykote product range includes high-performance treatments that provide much-needed lubrication to machine parts. The coatings can be tailored according to load, environment, temperature and speed.



Molykote is used on a variety of different materials to help control friction and wear. Through time, the performance of your equipment will deplete if not cared for properly using anti-corrosion, anti-friction coatings. Molykote ultimately saves energy, reduces maintenance, makes your equipment safer and more reliable and improves your company's productivity.

When it comes to applying Molykote, one size doesn't fit all. At Nexus Surface Treatments, we practice a variety of application methods, including spraying, dipping and brushing, depending on the surface material. We work with a variety of companies over a range of different industries, advising on the best use of Molykote for specific jobs to ensure the right application method is used at all times.

Molykote anti-friction coatings are manufactured using a combination of carefully-selected resins and solvents and contain solid lubricant particles. When applied to a metal or plastic surface, the coating bonds to the material, providing a dry and clean lubricating film. This enables the surface to withstand friction, even when placed under extreme pressure.

In order for Molykote to work effectively, a proper coating process needs to be followed. At Nexus, our experienced team can advise on the most effective way for the product to be applied to your surfaces. The first thing that we do is apply a pre-treatment coating to the surface. Depending on the material, the process can involve blasting and phosphating.

Once the pre-treatment has dried, we then carefully apply the anti-friction coating.

At Nexus, many of our employees are **NORSOK** and **NACE** approved. We have already achieved **ISO 9001-2008** accreditation and company is working toward **ISO 9001-2015** accreditation.

If you need a dry-film lubricant that provides superior lubrication and can handle extreme working environments, then Molykote could be the surface coating that will protect your equipment. At Nexus, we can advise you on the most effective coating and the best application process.

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