

The Environmental Issue

In line with the European Union we have set
a target of 30% bio-renewable by 2030

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Bimagrip® is the only high performance
anti-skid coating system with a 30 year
marine industry track record



We are Beegrip — a small company with a big heritage. Our operations began in January 2018 after a management buy-out of the Bimagrip[®] anti-skid coating business from RS Clare. Founded by Steve Greathead, a 30-year veteran of global industrial coatings, the business centres around a commercial and manufacturing base in the North West region of the UK.

This is our first edition of Beegrip: The Story So Far. We're proud to present our journal charting our global journey and allowing us to keep you updated with news from our world.

For issue one, we've focussed on our route to higher sustainability and our environmental credentials. We've highlighted a new award winning environmental shipping project that we've been involved in, Color Hybrid - the world's largest plug-in hybrid vessel which has just been awarded 'Ship of the Year', as well as our plans for the future.



Shortlisted Beegrip
for their Global Reach
Award 2019



Selected Beegrip as
a global strategic
partner 2019



Bimagrip® - 30 year track record

Originally developed in the late 80's, over three decades Bimagrip® has become globally recognised as a leading brand in both Marine and Civil Engineering industries. In fact Bimagrip® is the only high performance, anti-skid coating system with a 30 year track record in the marine environment.

Established applications include the ramps and decks of Pure Car Truck Carriers, roll-on roll-off vessels, link-spans and bridges. Our product is on over 500 ships and counting.

We are where you need us

The business, including manufacturing is based in the North West of the UK.

Headquartered in Manchester and with a liaison office in Ulsan, South Korea, Beegrip Ltd maintains a global presence through a network of agents, distributors and application partners.

Below, Steve explains the steps taken in year one to establish Beegrip Ltd;



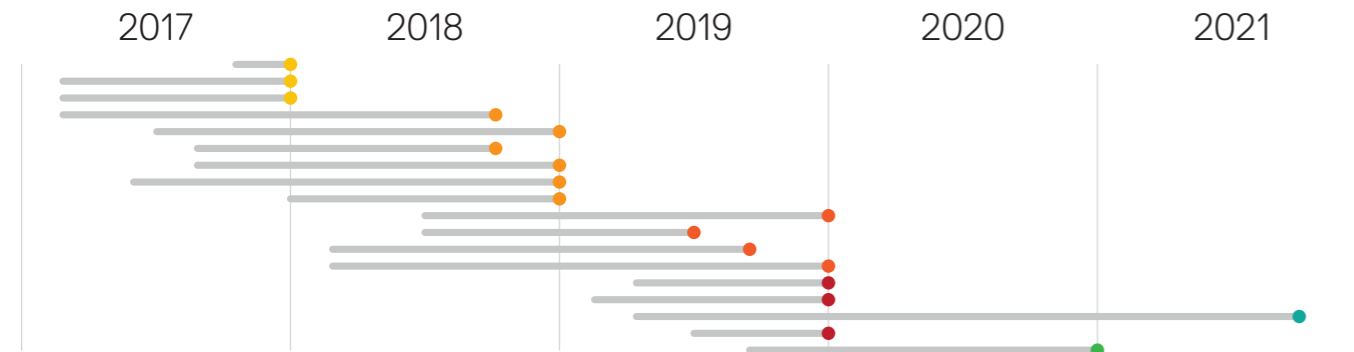
“Currently the majority of our business is Marine New Build in the Far East. We believe it makes sense to have a presence in our most important region. So we opened the office in South Korea and recruited a highly experienced Quality Control Manager.

In Q1 we achieved approved supplier status from Hyundai and exported to China, South Korea and Japan.”

Steve Greathead – CEO, Beegrip Ltd

Facts

Completed and ongoing projects



Owner	Location	Year	Type
● SIEM	Uljanik, Croatia	2017	PCTC
● DFDS	Flensburger, Germany	2017	RORO
● Zodiac	Imabari, Japan	2017	PCTC
● Jiaodong	Weihai, China	2018	RORO
● Devon Council	Exeter, UK	2018	Pedestrian bridge
● Scandline	Rodby, Denmark	2018	Linkspan
● Toll/MacGregor	HRDD, China	2018	Linkspan
● Toll	Jinling, China	2018	RORO
● MOL	Oita, Japan	2018	PCTC
● Gotland	Guangzhou, China	2018/19	ROPAX
● CLDN	Hyundai Mipo Dockyard, South Korea	2018/19	RORO
● Wallenius Wilhemsen Lines	Xingang, China	2018/19	PCTC
● Grimaldi	Yangfan, China	2018/19	PCTC
● Region Occitannie	Sadi-Carnot, France	2019	Bascule road bridge
● Colorline	Ulstein, Norway	2019 →	Cruise ferry
● Stena	Weihai, China	2019/20/21 →	RORO
● MacGregor	HRDD, China	2019/20 →	Linkspan
● SIEM	Xiamen, China	2019/20 →	PCTC



Multi-use

“While the majority of our business is in the marine industry, Bimagrip® is also used in civil engineering applications. In October we announced a collaboration with Trough-Tec Systems Ltd for the use of Bimagrip® on their anti-slip walkway system. Manufactured from a 100% recycled polymer, each TTS Green Trough unit conforms to the Health & Safety Executive’s manual handling guidelines.”

“4,000 tonnes of recycled household plastic waste is used to make Green Trough in one year. Equivalent to 268 million average-sized plastic bottle/containers.”



A future worthy of our heritage

In year one we exported to 12 countries (so far in 2019, we’ve added Ireland, Norway and Spain), hit our financial targets and built the foundations for future sustainable growth.

“Our commitment to improve customer service, consistency and cost effectiveness continues. We’ll deliver on our commitment by building a culture where our employees can thrive – grow, develop and be successful.”

We’ve had a strong start to 2019 and further UK development means we’ve secured the contract to supply the Stena E-Flexer series of new vessels, two of which will operate on the Liverpool - Belfast route.

Early indications are that we’ll deliver a future worthy of our heritage.





Creating

Chicago, Illinois and Cook County are home to one of the largest collections of historic bridges in the United States. The Congress Parkway Bridge, originally built in 1956, spans the south branch of the Chicago River. Located 70m from the Old Chicago Main Post Office, the twin bascule structure is considered historically and technologically significant. As part of a major rehabilitation program, Bimagrip® was applied in 2011. This rehabilitation is expected to dramatically extend the bridge's service life. Average daily traffic volume is 139,000 vehicles, including heavy trucks and buses.

“Since Bimagrip® was applied, the surface has required zero maintenance.”

Illinois Department of Transport

In July 2018, the Chicago City Council renamed Congress Parkway Ida B. Wells Drive. Born in Mississippi on July 16th 1862, Wells was a journalist, abolitionist, and feminist, who led an anti-lynching crusade in the in the 1890s.

Legacy



According to the U.S. Occupational Health and Safety Administration (OSHA), at least 43% of reported maritime injuries are a result of slip and fall accidents. One of the most common reasons for these types of injuries is slippery surfaces with a lack of anti-skid surfacing

Ship of the Year

Bimagrip® was selected for the world's largest plug-in hybrid vessel, Color Hybrid, appointed 'Ship of the Year 2019'



Gunvor Ulstein, Ulstein Group CEO, received the award from HRH Crown Prince Haakon of Norway at the Nor-Shipping exhibition on June 4, 2019.

"We have during the last 100 years developed a solid shipbuilding expertise. To us, this award is an acknowledgment and recognition of this expertise and our commitment to deliver quality and innovative solutions to our customers. We share this award with all our employees as well as the Norwegian maritime cluster," said Ulstein in her speech.

She also expressed her appreciation towards the shipowner, Color Line, for placing their trust in Ulstein Verft for the construction of this innovative and environmentally friendly vessel.

Built for cruise and ferry company Color Line, ship yard number 311 was outfitted at Ulstein Verft. Designed by Fosen Yard, the vessel was put to service between Sandefjord, Norway and Strömstad, Sweden in the summer of 2019. With a battery package of 4.7 MWh, the Color Hybrid is capable of travelling 12 nautical miles only on battery power, charged with shore power in Sandefjord. Measuring 160 meters in length and 27.1 meters in the beam, the vessel can carry 2,000 passengers and 500 cars.

The 'Ship of the Year' is awarded annually by the maritime magazine Skipsrevyen. Nominees are suggested among the readers of the magazine, while a jury appoints the winner. "Color Hybrid paves the way for a new era in the ro-pax segment with technical solutions that go a long way in the green shift", said the editor of Skipsrevyen, Gustav-Erik Blaalid.

"Norway has already shown the world how to create an electric car revolution, said State Secretary at the Ministry of Climate and Environment, Sveinung Rotevatn. Now we are going to take the green shift offshore. We have a proud tradition as a maritime nation, and with the focus on green shipping we shall secure our leadership position in the low-emission society. "Color Hybrid is equipped with a large battery pack that makes it possible to maneuver the emission-free in and out of the fjord to Sandefjord harbor. This was among the demands Sandefjord municipality asked when we invited stakeholders to apply for a license for this ferry crossing, says Mayor of Sandefjord, Bjørn Ole Gleditsch. - First and foremost, we want to thank for the appointment of the Ship of The Year, says CEO Trond Kleivdal in Color Line. Color Line bases its investments on the efforts of the authorities and the international community to reduce greenhouse gas emissions."

Among other things, the shipping company was early in the process of establishing a shore power plant in the Norwegian ports of call that the shipping company operates. From May, Kiel also established a shore power. "The construction of the world's largest plug-in hybrid ship is in line with the company's ambitions for further development of sustainable and environmentally friendly solutions for Norwegian shipping", says Kleivdal.

Beyond the positive effect on climate and the environment, the knowledge transfer from the project is a great advantage for the maritime cluster. More than 70% of the suppliers are from the maritime cluster in Norway," says CEO Trond Kleivdal.

On an annual basis, Color Hybrid; will reduce NOx emissions in urban areas to zero, and CO2 emissions will be reduced by 33%, if compared to ro-pax of similar size. The reduction in the use of fossil fuels will be above 20%. Ulstein has always placed great emphasis on thinking new and challenging the existing, says Gunvor Ulstein, CEO of Ulstein Group. Color Hybrid is, with its green and environmentally friendly solutions, a very important project for both us and the maritime cluster. Fosen has designed a ship for the future, says ship designer Per Edvin Tande and CEO Anders Straumsheim in Fosen Yard. The ship is designed to meet the environmental requirements of Sandefjord municipality and the desire for energy optimisation from Color Line.

On board there are batteries manufactured in Trondheim, and gear, thrusters and propeller systems from Volda. We have already gained great international interest in the ship, they say two. Color Hybrid is equipped with a 5 MWh battery pack that makes it possible to sail discharge free in and out of the Sandefjordsfjorden. Sandefjord municipality made clear environmental requirements, which have contributed to innovation, the green shift and to the world's largest hybrid ferry between Sandefjord and Strömstad. This was the demands of Sandefjord municipality when we had competition in the sailing times, says a proud and satisfied mayor in Sandefjord, Bjørn Ole Gleditsch.

"We are proud to be involved in this project, paving the way for 'green shipping of the future'. The vessel is fitted with Bimagrip® and RoRo equipment from MacGregor that runs on biodegradable oil. Beegrip is honoured to be one of the few suppliers selected from outside Norway and to be associated with this innovative and environmentally friendly vessel."

Steve Greathead – CEO, Beegrip Ltd



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Plant

Renewable materials are materials that can be manufactured from renewable resources. For example, resources that replenish fast enough to keep pace with how fast they are consumed, either through biological reproduction or other naturally recurring processes. The term 'bio-based materials' is generally used for materials derived from renewable biological resources.

Determination of the renewable content of a product is defined by the weight percent of bio-based/renewable material on the total weight of organic material x100.

Currently 5% of Bimagrip® comes from the castor plant, a renewable biological resource. The plant produces castor seeds that contain up to 50% castor oil. Castor oil production for industrial use is said to be non-competitive with food use. India is the leading producer of castor oil with 75% of production followed by China and Brazil with 12.5% and 5.5% respectively.

Power

Progress

We changed our Pack A packaging from plastic to steel. In June 2019 it was reported that recycling of steel packaging in Europe hit an all-time high of 80.5%.

Record recycling means steel packaging hits its own industry target three years early. As well as being the most recycled primary packaging material in Europe, steel is a permanent material that can be infinitely recycled without any loss of quality. Worldsteel estimates that 75% of steel products ever made are still in use today. Recycling steel packaging reduces emissions and helps to save natural resources such as iron ore, coal and limestone. In 2020 we'll introduce an initiative to encourage recycling of our metal packaging.

In August 2019 we introduced a longer lasting squeegee. Extensive field-testing has shown that the new squeegees last up to three times longer than the previous version, thus reducing waste. The introduction is in line with our Environmental Policy.



“As individual consumers, the single best thing we can do for the planet is to keep our stuff in use for longer”

Yvon Chouinard — Founder of Patagonia Inc.

Design Direction
93ft.com

Photography
Mike Louagie
Unsplash
Legend Creative

Printing
asap-digital

Paper
GF Smith
Fenner Papers

Typography
Replica / Norm
Lineto.com
Garramond FB / Adobe
fonts.adobe.com

Advisors
Byoung Duk Mun (South Korea)
Mark Butler (UK)
Nina Hart (UK)

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