# SFL Connect A Seal For Life Industries Publication

**MARCH 2023** 



AN

INTRODUCING SFL INFRASTRUCTURE

OUR COMMITMENT TO SUPPORTING A SUSTAINABLE FUTURE



sealforlife.com

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NGS

One coating company protecting the future



# Take it Easy



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Easy-Qote is a coating applied simply as a patch with minimum surface preparation requirements.

Sustainable Futures

The wind industry continues to grow at rapid pace. In 2021 over 93GW of wind energy was installed globally, with approximately 23% of that offshore and 77% onshore. This amounts to an estimated 27,000 wind turbines installed around the world. That is 27,000 new assets to be maintained and protected. Protection can be simple with Easy-Qote.

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#### **A NOTE FROM THE EDITOR**

2022 was a great year of activity in all aspects of our business. Our teams returned to travelling to see clients, events were back on the calendar and our technology and product teams remained committed to ensuring our product line up was as strong as ever.

We had some fantastic results in our sales teams across the globe and we look forward to seeing what the next year brings our way.

As we move into 2023 we are excited for our new location in Houston, marking out second location in this all important area. Our new 60,000 sq ft facility located in Cypress is going to be a main manufacturing site for a number of our product lines and its proximity to George Bush Intercontinental airport, and the Port of Houston means we are ready to serve, both the US and globally. We had a strong year in the renewables sector with our up-and-coming brand, Easy-Qote. A series of adverts made their way into a number of Wind publications, along with some fantastic articles looking at how the industry is growing, and just how EQ fits into the role of asset protection.

This year we are excited to bring you a brand new advert highlighting our Liquid Epoxy Pipeline - so watch this space (2). With a track record of more than 60 years in this field, it is the extensive product and industry knowledge that we pride ourselves on being able to bring to the table. From high flexibility to impressive gouge resistance, our product line up has a solution for almost every situation.

Our company tagline has never felt more apt, we are One Coating Company Protecting the Future.



### Introducing the Infrastructure Coatings Group

Seal For Life are pleased to announce their new Infrastructure Coatings Group. The new division brings six existing brands together to form a dedicated group to deliver protective coatings and lining solutions for a wide range of industries, all with the goal of extending infrastructure lifetime.

The Group has four main divisions; Performance Coatings, Insulative and Marine, Polymer Floorings and Fire Protection. Combining the brands together in this group allows us to extend our in-house and dedicated R&D capabilities, expand our product offerings and bring a broader range of solutions to our customer portfolio.

The Infrastructure Coatings Group consists of these brands











In addition, SFL's WaterWrap product was recently approved for use on the project, and we have received the first order.

#### **PERFORMANCE COATINGS**

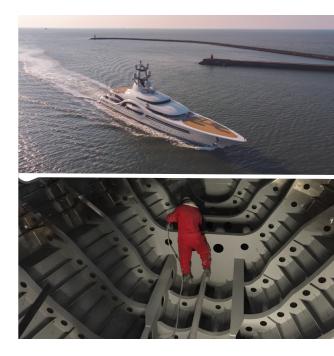
The Performance Coatings division recently secured most of the coatings needed for the El Cuchillo II Aqueduct in Mexico. This project is a high priority for the Mexican Government with the aim to add another aqueduct to the dam delivering much needed water to the urban area of Monterrey by the end of the year.

The 84"pipeline will run 85 miles and DuraShield 110 has been selected to provide both the interior lining and exterior coating, because of its flexible application characteristics to suit the multiple applicators involved with the project, while providing long-term corrosion protection to ensure reduced ongoing maintenance. The coating is also ANSI 61 NSF "drinking water" approved.

#### **INSULATIVE AND MARINE**

Yacht builders strive for top quality and high performance when selecting materials in their premium vessels. Our line of marine products was recently selected to provide condensation prevention, a thermal barrier, and reduce overall noise and vibration to a new build in The Netherlands. Approximately 3500 gallons of product was used in this project.

Marine-DTM was applied along the hull to prevent condensation and as a thermal break in other areas of the vessel whilst Sound Control-dB was used on the engine room and passenger/crew spaces to ensure a quiet, comfortable environment for all aboard. The yacht's complex structural geometry posed no issue for the coatings, ensuring rapid application to keep up with the fast paced nature of this industry.





#### **FIRE PROTECTION**

This 45,000 Square foot retail lumber and hardware facility located in Bonham, TX USA was coated with an open cell spray foam insulation on the underside of the roof deck. This project required a thermal barrier be installed over the exposed spray foam insulation to meet the code requirements.

600 gallons of 60-60A Black was applied to cover all exposed surfaces and cross members. The black coloring was not only chosen for its ability to meet code, but also for its true black architectural finish appearance, providing the facility owner with the desired aesthetic result.

#### **POLYMER FLOORING**

Biotech manufacturing facilities have specific and stringent requirements when it comes to flooring selection during construction, from durability to avoiding contamination of products and people, among other concerns. Floorings need to be antimicrobial, able to withstand heavy and vibrating equipment, high foot traffic, fluid spills and constant cleaning.

Two products from the Polymer Flooring division were selected for this 20,000 sq ft site –VerdeFloor SC Surpracoat and VerdeFloor SBA Polyaspartic. This combination of products offered all the vital protection required along with flowability during application and a long lasting finish.



### **Supporting a Sustainable Future**

Reduce emissions. Net zero 2030. Reduce energy dependency. Now or Never. 1.5 Degrees. Heading for a climate disaster. Governments must act now. New energy strategies. The cost of climate inaction.

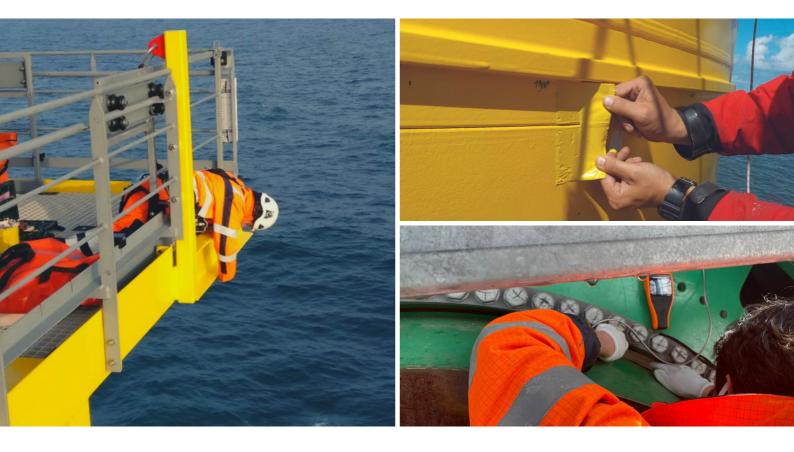
These are just some of the soundbites from the news in recent times as the acceleration to net zero 2030 goals speeds up. With rising energy costs across the globe putting pressure on household and commercial expenses, and the actions of Russia in Ukraine emphasizing the need to reduce energy dependencies from overseas, harnessing energy from the earths' elements is in full focus.

Earlier in 2022 the UK published its strategy for increasing energy independence. Nuclear, wind, solar and hydrogen all play a part in that with strong targets to achieve by 2030; hydrogen capacity to double and solar to increase by up to 5 times the current outputs. The Offshore Wind target is to generate 50GW of energy by 2030, currently sitting at 11GW. These are ambitious targets and that sort of commitment is going to take some serious infrastructure installation projects. The UK are not alone in the push to renewable energy, especially offshore wind. The USA conducted an offshore wind lease sale off the coast of New York, fetching over \$4 billion, a major step in the US push to renewable energy.

In March we saw a new study reveal that the Asia-Pacific region's wind energy sector could soon account for nearly a quarter of their power this decade, with China set to be the largest market by 2030.

And in the same time the Government of India announced funding for a offshore wind energy test facility by India's National Institute of Wind Energy (NIWE). Since the conditions in Indian waters are different to those experienced in Europe, there is a need to perform testing to ensure wind turbines are designed for their best performance.

The future of offshore wind is looking bright, and busy. But to make this energy truly sustainable, preventative asset protection is vital to ensuring longevity.





SFL CONNECT / MARCH 2023

The push to offshore wind is to take advantage of the power of the wind produced at sea, moving at a much higher and more consistent speed thanks to the open space and absence of structures. What is a benefit to production, however, poses a logistical disadvantage to construction and maintenance along with an aggressive corrosive environment. These increased offshore developments will see stronger winds and bigger waves, beneficial to production, but adding pressure to not just the installation phase, but ongoing operation and maintenance.

In this corrosive environment a wind turbine can see corrosion start in many different areas —monopiles, ladders, walkways, boat landings, guard rails and rotor heads—each of which can compromise the overall integrity of the structure. Protective coatings that can be applied to prevent corrosion from developing, or halt its progression, are essential to providing long term asset protection.

As we have seen in many other industries, a major consideration to the ideal protective coating is surface preparation. The need for aggressive blasting to apply protective coatings is a burden in these confined and hostile environments, let alone the contamination to surroundings. Preventative coatings that can mitigate this issue are a major step forward, combine that with ease of application and minimal manpower and offering benefits to time, long-term protection, costs and production.

One brand paving the way to a simpler future is Easy-Qote; a brand on a mission to change the way corrosion prevention is viewed, and conducted, with it being applied simply as a patch.

With traditional approaches we would see a variety of materials and equipment brought to site: surface preparation tools, coatings and application tools, rope access equipment and PPE.

In the case of Easy-Qote, one individual or small team is armed with a wire brush and a roll of patches. Simply brush loose corrosion away, apply the patch and return to base. No blasting is required avoiding the all-important issue of environmental contaminants. Overhead costs will be greatly reduced with transportation and manpower costs down. Instead, protection is immediate and with a service lifetime of 25-30 years, the asset can now reach its full potential with long term protection. So what does it all mean?

The ambitious targets for 2030 will take swift and dedicated action, and it should be done with longevity at the core. A sustainable future is not just working with greener energies and renewable sources, but it involves extending the lifetime of assets and existing infrastructure, so that they can carry out their duties long beyond what the environment might normally allow.

Put simply, with Easy-Qote, we are committed to helping the wind energy industry reduce failure from corrosion issues, improve productivity, longevity, and as a result, make renewable energy truly sustainable.



### The Future of Hydrogen

The global energy system is changing; the supply, the consumption and the sources.

Alternative energies actively being pursued include Solar, Wind, Wave and Tidal, Geothermal and Hydrogen gas.

Across the globe these sources are developing at different rates; Wind has had particular focus throughout 2022 with lease sales and investments in infrastructure, as countries make their commitments to increasing their GW capacity. Solar energy generation also increased by a record 179 TWh in 2021.

Hydrogen will soon be a critical component in the renewable energy mix, especially with electricity becoming a dominant power.

> HYDROGEN ENERGY STORAG



Hydrogen can support this process by taking advantage of existing energy infrastructure, being stored for long durations and can be easily controlled, unlike many other renewable sources.

In Europe alone it is estimated almost 70% of the potential footprint for gaseous hydrogen is based on repurposed existing natural gas pipelines.

At present many operators are starting to carry a blend of of natural gas and hydrogen (up to around 15%) in their pipelines.

At Seal For Life we are proud to be protecting a large number of those pipelines with our protective coatings.

We know the future of hydrogen-only pipelines requires additional protection and that is part of our product development, as we look forward to protecting the future.



# One coating company protecting the future

With a growing portfolio of high performance products, Seal For Life offers innovative corrosion prevention and thermal insulation technologies for infrastructure protection.

A track record of more than 60 years, always pushing the boundaries to develop new solutions for the challenges of tomorrow.

#### sealforlife.com













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### Providing more than the product

Harouge Oil Operation company are the joint venture operator on behalf of Libyan's National Oil Corporation since 1955. They operate 3 main pipelines, the Ras Lanuf oil terminal and 5 oil fields.

Harouge have to replace 80 km of 36 inch Amal-Ras Lanuf pipeline in Libya because of damage on the existing line due to age and the unrest the country has seen over the years.

The project has been awarded to CPPE company and subcontracted to PSI company in Tunisia for pipeline welding and coating.

Harouge required a 3-layer cold apply tape system as the anti corrosion solution for the entire pipeline.

They requested a fully automatic machine able to apply the coating system (surface preparation, primer, inner and outerwrap application) in one go. In fact they were referring to the one seen in our original adverts decades ago, seen here!

Our Business Development Manager, Laurent Valvassori, set about securing a new machine with the help of technical specialist Jack Burns. The goal was to provide a total solution from product to application.

With the machine secured the next challenge was in having the crew trained, this was done out of country and once complete the machine was disassembled, shipped and reassembled at site.

With material and equipment on site this project is underway. A great outcome for our client, going beyond the purchase order to a total solution outcome.





#### SAVE YOU CAN

if you protect your pipeline with Polyken Protective Tape Coatings?

MORE-PROBABLY A LOT MORE THAN YOU THINK. wouldn't want you to assume that *Polyken* Protec-Tape Coatings are priced lower than all other ings. They aren't, and may sometimes even cost a e more applied than lower quality coatings. But here are 6 reasons why we can promise a sub-stantial saving:

- Polyken controlled strength careful contr selection and processing of raw materials;
  Uniform thickness and quality;
  Rugged, long-lasting protection from corro ntrol in the
- Application right from the roll-no heat, thinn or solvents, no drying or clean-up time required
- High speed, low-labor power taping for "big inch" as well as "littlest inch" installations;
- 6. Lowest equipment investment and man

#### **POLYKEN ADVERT FROM 1956**

rse we can't figure your costs here in dolla But show us your plans, and we consider you can save on de

Let's talk it over now. See o File or write, wire, or Street, Dept. AR-B,



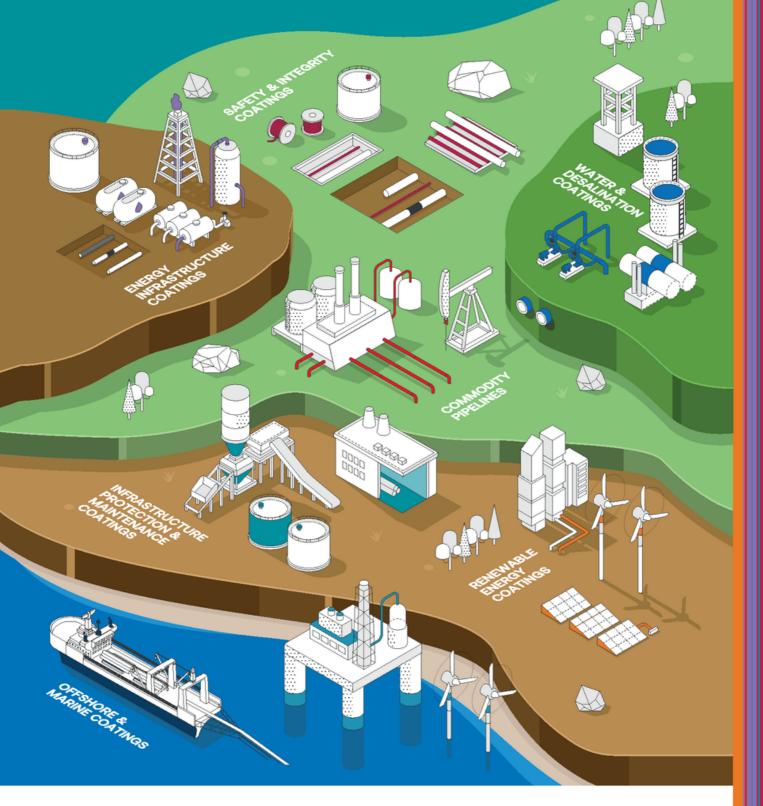
ARCHITECTURAL RECORD FEBRUARY 1956 32







# One coating company protecting the future





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# **Project News**

#### **CANUSA HDD PROJECT IN CANADA**

Horizontal Directional Drilling (HDD) requires a more specialist coating to provide the right level of protection needed to endure the tough terrain.

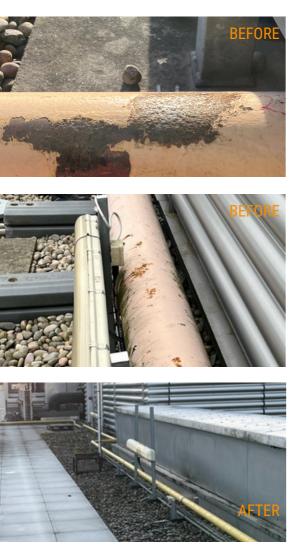
In Western Canada an ongoing project is pulling pipeline underneath a River in British Columbia, and ScarGuard® by Canusa has been selected to try and reduce the potential damage to the coating on the pipe to ZERO.

A main reason for concern is that the operators have multiple casings on the entry side and any damage could cause interference with not just the casing pipe, but the additional Cathodic Protection system. In addition, ScarGuard can provide corrosion protection to avoid any issues typically seen with damaged sections of pipe.



Over 47,000 feet of ScarGuard was supplied for this project, with an additional 87,000 feet of compression tape.

#### THE VERSATILITY OF EASYQOTE



After being exposed to the brutal North Sea weather conditions for 13 years, the natural gas pipework on the roof of Union Square Shopping Centre in Aberdeen, UK was showing signs of deterioration in condition due to corrosion.

Constant bombardment from the North Sea had resulted in coatings being eroded at various exposed sections along the 480m of pipework. Previous attempts to repair the protective coating using paint had not provided a solution with any prolonged lifetime.

The challenge to find a solution to the problem was further exacerbated by the location of the pipework. The majority of the pipework had been installed on top of electrical cable trays and conduit. Some of the pipework was only 10-15mm above the electrical cables. This meant that using conventional wrapping systems would not have been possible without destructing the electrical cable runs, or without greatly increasing the cost of the repairs.

After carrying out a survey at Union Square it was identified the EasyQote range of products would be the perfect cost-effective solution for our client to give corrosion protection for 20-25 years.

The installation methodology of EasyQote was tailor made for this project with limited space, meaning that no disruption to services or dismantling of long electrical cable runs was required.



# **Case Study - STOPAQ**

Over the course of 2022 STOPAQ saw fantastic growth in the Western Hemisphere Region, with one of the most notable highlights including the return of STOPAQ to its foundational roots in water-proofing and sealing.

Our team had great success within the municipal sector which is opening up a completely new segment of customers and applications in both anti-corrosion and sealing.

Our STOPAQ products have been used for filling and sealing various voids and cracks at a Rainwater Management System in Alberta.

The Rainwater Management System and associated Oil & Grit separator are located within a high water table and adjacent to an environmentally sensitive area.

Previous methods of waterproofing and sealing these chambers have all failed, allowing fresh water from the adjacent pond to mix with the trapped contaminants in the chamber and pollute the pond water and the outflow into the pond.

STOPAQ was given the challenge of waterproofing and sealing all cracks, voids, penetrations and seams in the entire outflow system.





STOPAQ has been proven to provide solutions in stringent application conditions including different temperature gradients, minimal working area, and minimal surface preparation.

In this project, Repair Filler was widely used to fill annular spaces around concrete pipe penetrations, gaps in piping due to uneven trenching as well as the seams and joint of a separation 'weir wall' in the upper chamber.

Additionally, the lower chamber was located in an 8 meter deep (27') excavation that is continually filled with groundwater. All the precast joints had Repair Filler installed before assembly with all connection pockets filled as well.

Afterwards, all the external seams were coated with STOPAQ Basecoat, creating an impervious, water-tight structure.

The feedback from our customers has been astounding and they are extremely pleased with the exceptional performance of the STOPAQ products in all the applications.



## A brand new patent for STOPAQ®

Since 2013 STOPAQ has held patented coating systems in its' portfolio that can be applied as repair coating on wet pipelines like condensing lines, riser pipes in splash zone area and submerged pipelines.

These coating systems consist of Wrappingband CL (for condensing lines) or Wrappingband SZ (for risers and submerged pipelines) and are applied as inner layer with a direct bond to steel.

Over the course of time we often received inquiries to develop a similar product with a higher maximum temperature rating, and so in 2019 we started a new product development. Our aim was to create a new system with a temperature rating of 70 °C.

The project development was led by Jan Otto Schutte, (pictured left below holding our celebration cake) and he had to start from scratch because various ingredients used for Wrappingband CL and SZ were not suited for use in a product with higher temperature rating. The experimental stages included: selection of candidate raw materials, screening for the most important properties of formulations at lab-scale, statistical design of experiments (DOE) to determine optimum mix-ratios of ingredients, scale up to production size batches, and testing for properties to see if minimum requirements of applicable standard ISO 18797-2 could be met.

The experimental stages were successfully finished last year and Wrappingband WSH was then introduced commercially as a replacement for both Wrappingband CL and Wrappingband SZ.

Since then a number of successful applications have been completed with customers and the feedback has been very positive.

Following our successful introduction to market we applied for, and have had granted and published, a full patent for the product. The entire STOPAQ team has played a part in the successful development and introduction of STOPAQ WrappingBand WSH.



# **Company News**

#### **DHATEC MAKING MOVES**

2022 was a year of transition for the DHATEC team in The Netherlands.

The Offices were moved to a fantastic new location in Valkenswaard giving Dhatec a more efficient workplace in which Operations and offices can work closer together

The team celebrated 30 years of being in business with a wonderful party for customers, friends and family; a great achievement and chance to reflect on how far the business has come.

New team members joined in sales and administration, and our teams finally got back out on the road (and by air) to see customers after two long years.

We were also able to celebrate two major work anniversaries of our wonderful employees 25 years for Mo Minae and 10 years for our General Manager Bernadet Gijsbers.

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#### **KEEPING A FOCUS ON SAFETY, QUALITY AND OUR ENVIRONMENT**



We take Health and Safety seriously at SFL and in November 22 a Global Hazard Hunt and Housekeeping Campaign was conducted by SFL facilities.

The results were evaluated by the Executive Leadership Team and the SFL 2022 EHS Champion title was awarded to Charming Patel (Baroda) and Johan Dillen (Westerlo) for their contribution to identifying and addressing hazards to Health & Safety.

Global Safety Stand-down will be conducted at all SFL facilities during last week of March to reinforce commitment to Health & Safety, to announce focus areas of H&S improvement initiatives for 2023 and to award 2022 EHS Champion titles.

Our teams also remain committed to identifying ways to reduce our carbon footprint. From lighting efficiencies to waste reduction and saving water usage in our manufacturing locations. Its a global effort.

# **Technical Corner**



#### LINEAR ANODE TECHNOLOGY

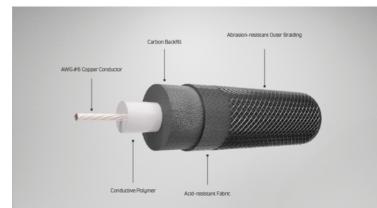
Anodeflex is the most robust and effective linear anode and grounding electrode available on the market. Ideal applications include cathodic protection of pipelines, above ground storage tanks, and utility infrastructure as well as electrical grounding for AC interference and substation grounding grids.

The most advanced dimensionally stable materials are assembled with precision manufacturing for consistent and reliable performance. Customers have options of polymeric and mixed metal oxide (MMO) primary anode materials for the cathodic protection line, and our AC electrode offers multiple copper cable gauges for various attenuation and fault current needs.

Our titanium substrate MMO line of products includes a broad range of current capacity choices as well as a copper cored titanium substrate option, for best in class current attenuation performance. Additionally, the primary anode is electrically reinforced with a redundant parallel cable connection at ten foot internals for fail safe operation and enhanced current distribution.

Engineered packing with industry leading calcined coke, within a synthetic casing and durable polypropylene braiding, results in an simple and ready for installation product.

Anodeflex is the safest and highest quality solution for cathodic protection and grounding applications.





### Why paint when **you can patch**





Learn more about our Easy-Qote brand at these upcoming events in 2023:

Wind Europe Copenhagen - April 25-27 Stand C4-A2

Global Offshore Wind London - 15-16 June Stand B40

## **Ultimate Pipeline Protection**

Seal For Life is home to the most comprehensive liquid epoxy portfolio for pipeline protection in the industry.

Powered by Powercrete and Canusa products, we are able to provide a liquid epoxy solution for every situation. From field joint coatings to applications for horizontal directional drilling (HDD), to factory applied.

Our track record spans more than 60 years and with the opening of our new manufacturing center in Houston we have increasing capabilities to better serve both local and global markets. Our 60,000 sq ft facility boasts advanced polymer chemistry and over 200 years of manufacturing experience.

Key features of our product lines include:

- Abrasion resistance > 1500 cycles/mil
- Gauge resistance below 10% total DFT
- High Flexibility > 2.0 ° /pipe Ø

### **Case Studies**

PROJECT NAME	MAHANGAR GAS LTD
YEAR	MARCH 2021
MARKET	GAS PIPE LINE
LOCATION	INDIA
SCOPE	HDD Project using a new technology for extremely aggressive soil and boring conditions
DIAMETER	8" OD
PRODUCT	POWERCRETE DD

PROJECT NAME	TRANSMOUNTAIN
YEAR	JAN 2022 TO JAN 2023
MARKET	CRUDE PIPE LINE
LOCATION	BRITISH COLUMBIA, CANADA
SCOPE	The critical infrastructure was built as a fast passed project requiring optimal corrosion protection. Canusa HBE was selected to meet the stringent performance criteria
DIAMETER	36" OD
PRODUCT	HBE 95 BG & HBE FLX









### **SFL SENIOR LEADERS - PERSPECTIVES**



Somaieh Salehpour - VP Strategic Markets & Technology

<u>What is the focus for SFL's</u> <u>Technology/Product</u> <u>Development teams right now?</u>



Stuart Wilson - President WH Field Joint Coatings

<u>What do you think is interesting</u> <u>about the industry right now</u>



Tony Crowell - President Infrastructure Coatings Group

<u>What do you think will change in</u> the industry in the next 2-5 years?

Right now we are focused on innovation and creating new products that align with the growing demand for infrastructure protection and sustainable energy solutions. Specifically, developing products related to Wind energy and Hydrogen pipelines, which are important areas in the energy transition market.

We are also working on products that have enhanced performance, like superior field applied epoxies for pipelines (e.g., New generation of Powercrete). Furthermore, we are developing solutions for challenging coating applications such as under water rehabilitation of structures with our newly patented Wrappingband WSH, from the Stopaq portfolio.

While we have faced supply chain and raw materials challenges in recent years, like everyone else in our industry, we have now shifted our focus towards investing in true research and development to remain competitive in the market. We believe that our emphasis on energy transition will enable us to capture new business opportunities, and our commitment to enhancing our existing products will ensure that we continue to provide our customers with the highest level of quality and satisfaction. It is an exciting time for us.

At SFL we are active participants in a number of different market sectors, including but not limited to Oil and Gas, Water and Wastewater, District Heating, and renewables. Throughout all these industries we continue to see and work with exciting customers who continue to strive for more effective, efficient, and environmentally friendly solutions.

One area that is very interesting in our industry is the rapid expansion of LNG, specifically in North America. SFL has been an activate participant on some of this infrastructure and are aggressively developing new solutions to meet some of the challenging applications that are presented through them. One example is the expansion of our Stopaq product line, presenting a number of benefits, be it application on non geometric infrastructure, non flame application and sealing needs. Stopaq meets these challenges and brings many more benefits to the table.

This is an exciting product, with proven success in Europe, Asia, and the Middle east. Its adoption in North America has been exciting to watch and we look forward to it helping many of our customers with their future anti corrosion needs.

We have seen considerable improvement in environmentally friendly coating solutions over the past ten years.

In the past, many coating companies would promote almost any "green" coating to support a sustainable story line. However, today the performance of bio-based coatings are surpassing the performance of traditional protective coatings.

At Seal For Life, we have invested heavily in sustainable bio-based coatings research and development. Our USDA Certified Bio-Based Life Last polyurethane coatings are now the industry standard for steel waterpipe coatings, and our USDA Certified Verdia polyurethane concrete flooring systems have been installed at many of the largest food and beverage facilities in the United States.

In the future, environmentally friendly coatings will be the standard not the exception.



#### INTERNATIONAL DAY OF EDUCATION January 24th





Thank you to our teams in Baroda for their valuable support.

### **Community Support**

#### OUR TEAMS IN INDIA HAVE BEEN INVOLVED IN A VARIETY OF LOCAL CHARITIES FOR MANY YEARS

Earlier this year we celebrated International Day of Education and we are proud to share that SFL sponsor a number of initiatives in India, supporting education to a wide range of groups.

Our teams are involved in various projects including: supporting women in the workplace with essential skills, industrial training for out of school children, hands on training for vocational development, supporting various sporting academies, and much more.

Come And Play Sports (CAPS) provide coaching for a wide range of sports, from cricket to football to swimming. The aim is to make sports accessible for all and during this time we have learnt that some of these children are playing these sports for the very first time. The program has helped children learn about nutrition and fitness, see sports as a career opportunity, promote inclusivity and break down gender barriers.

The Jumpstart Skill Foundation is a Not-For-Profit organization helping underprivileged girls and women with opportunities to develop employment and enhancing skills to those who may not have had the chance to finish their formal education.

The foundation helps them to obtain general knowledge, think outside the box and develop skills important for the job market. Helping young women to become more confident and independent, emotionally and financially.

School Smart Class is an initiative which empowers education amongst villages in India. With 250 beneficiaries they have seen a 93% increase in learning outcomes for out of school children, 100% livelihood generation through alternative education initiatives, 25 Safai Sathis trained and 20 micro-entrepreneurs trained so far.

### SEALFORLIFE Industries

One Company. Innovative Technologies. Ultimate Protection



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