Acquisition creates new Dow Hyperlast brand

The acquisition of Hyperlast Limited by Dow Polyurethane (PU) Systems, a business group of The Dow Chemical Company (Dow), creates countless opportunities for the newly combined Dow Hyperlast business.

Dow Hyperlast (PU) Systems has some 24 facilities located across Europe, Asia, Middle East and Africa, North and Latin America, where it develops high-performance, differentiated polyurethane system solutions for customers in a broad range of industries. Dow is also a leading producer of propylene oxide/propylene glycol (PO/PG), methyl diphenyl diisocyanate (MDI), toluene diisocyanate (TDI) and polyols, the raw materials used in the production of polyurethane systems, coatings, adhesives, sealants, and elastomers, as well as rigid, flexible and integral skin foams. Dow also offers the latest in polyol technology with its VORANOL™ VORACTIV™ polyols, part of an ongoing initiative by Dow to lead the industry in providing high-performance products with reduced VOC-emissions.

“Our acquisition of Hyperlast further underscores our commitment to provide our customers with the highly advanced polyurethane system technologies,” commented Juan Antonio Merino, global general manager for Dow Polyurethane Systems.

“As a market leader in the polyurethanes industry, we continually strive to be at the forefront of industry innovation and development in order to offer our customers a broad portfolio of tailored solutions.”

Dow Polyurethane Systems is a global leader in the development and formulation of fully formulated polyurethane systems for a broad range of applications and is focused on providing innovative, tailor-made solutions to customers worldwide. It manufactures and markets custom-formulated rigid and semi-rigid, flexible, integral skin, and microcellular polyurethane foams and fully formulated systems as well as elastomers, sealants, coatings and binders. These products are used in applications ranging from construction, automotive, appliance, furniture and shoe soles to decorative moulding and athletic equipment. Focused on meeting the specific needs of customers in their local geographic region, Dow Polyurethane Systems operates a global network of 17 systems houses with manufacturing units and 7 service centers, supported by two research and development centers.

Dow Hyperlast is backed by the global resources of Dow, which is a diversified chemical company that harnesses the power of innovation, science and technology to constantly improve what is essential to human progress. Dow supplies its products and services to customers in more than 175 countries, helping them to provide everything from fresh water, food and pharmaceuticals to paints, packaging and personal-care products. Built on a commitment to its principles of sustainability, Dow has annual sales of $49 billion and employs 43,000 people worldwide.

Hyperlast has more than 30 years’ experience as a specialist polyurethane systems house with a European manufacturing plant in Birch Vale, near Manchester; a sales and technical support facility in Kolo, Poland; its Autothane range of applications and is focused on providing innovative, tailor-made solutions to customers worldwide. It manufactures and markets custom-formulated rigid and semi-rigid, flexible, integral skin, and microcellular polyurethane foams and fully formulated systems as well as elastomers, sealants, coatings and binders. These products are used in applications ranging from construction, automotive, appliance, furniture and shoe soles to decorative moulding and athletic equipment. Focused on meeting the specific needs of customers in their local geographic region, Dow Polyurethane Systems operates a global network of 17 systems houses with manufacturing units and 7 service centers, supported by two research and development centers.

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Innovative Designers achieve the Limelite

Dow Hyperlast has extensive experience working with designers who innovate with concrete and similar materials. It’s latest success is with Conscious Forms, whose concrete and stainless steel LED Lite™ product has featured on BBC TV’s ‘The Apprentice 2’ and also in style magazine ‘Elle Decoration’.

Conscious Forms is a new design company that features on reinstating the elegance and sophistication in concrete, a re-emerging utilitarian material. Its products are available through retail outlets and by mail order; the firm also accepts private commissions and offers design consultancy.

A prime example of its stylish products is Lite™, which features a stainless steel energy-efficient light fitting encased in a concrete sphere for interior/exterior use; this was launched at ‘100% Design 2006’. Available in a selection of colours, Lite™ can be stacked in multiples or simply positioned to illuminate in a variety of angled directions. 130mm in diameter, it is ideal for highlighting architectural, interior or garden features.

As Junior Phipps of Conscious Forms explains, “Texture and colour are emotive elements that add sensuality and warmth into a material which is renowned for being cold, rough and soulless.”

When looking for the mould material for Lite™, Conscious Forms selected DURAMOULD™ ET 45 supplied by Dow Hyperlast. Castable at any temperature and featuring a two-component polyurethane liquid mixing system, DURAMOULD provides excellent reproduction of detail, enabling designers to create intricate designs which are replicated with fingerprint precision on the finished product. It produces strong, virtually tear-resistant moulds with minimal shrinkage and at a low cost.

For further information quote AD14/01
DURELAST™ brings higher standards to UK and European rail travel

DURELAST™ is improving comfort and décor of European trains, including the East Coast Mainline, by providing durable polyurethane edging for carriage tabletops and composite panels. Moulded onto a tabletop or panel, DURELAST creates a very strong bond and a hermetic, hygienic seal not easily found in other materials.

“Using this technology on the East Coast Mainline and other rail interiors has allowed us to extend the user’s brand image into a high-quality table that looks better and lasts longer than conventional products,” commented Stuart Randle, managing director of panel products manufacturer, Grant Westfield Ltd. “This technology presents tremendous opportunities for any designer of rail interiors.”

For further information quote AD14/05

DURELAST provides a hermetic seal that is hygienic and waterproof, is easy to clean, non-toxic, resistant to heat and chemicals, and helps keep tables looking good for longer.

For further information quote AD14/08

Ramler applies DURELAST™ for tabletop protection

Melbourne-based (Australia) Ramler Furniture is supplying its Top Edge branded tables and chairs protected by DURELAST™ to restaurants of the Subway group across Australia and South East Asia.

A two-component polyurethane elastomer available in many colours, DURELAST can be moulded to any shape, an excellent choice for smooth surfaces requiring protection against wear and vandalism.

DURELAST provides a hermetic seal that is hygienic and waterproof, is easy to clean, non-toxic, resistant to heat and chemicals, and helps keep tables looking good for longer.

For further information quote AD14/09

Dow Hyperlast and HSSL commit to improved auto components

For further information quote AD14/06

Furthering its aim to work closely with leading players in local markets, Dow Hyperlast has licensed the production of AUTOTHANE™ automotive components in India to Harita Seating Systems Limited (HSSL) of Hosur, Tamil Nadu.

Harita, which in Sanskrit means verdant prosperity, began production of customized automotive seating solutions in 1998 and has considerable experience of manufacturing products able to satisfy the specific requirements created by road conditions in India.

Currently HSSL is the only seat manufacturer to provide complete seating solutions to all segments of the automotive industry in India by supplying over 50 major customers with 170 products and 368 variants plus add-on features and an ever-expanding export portfolio.

Over the past 12 months, HSSL in conjunction with Dow Hyperlast engineers, has worked closely with Tata Motors, Mahindra & Mahindra, TVS, Endurance, Gabriel, Delphi, Maniti Suzuki and other automotive manufacturers to introduce AUTOTHANE spring aids and NVH (noise, vibration and harshness) components to the market.

HSSL has invested in a new manufacturing, design and testing facility for AUTOTHANE components and assembled a highly qualified team of managers, engineers and a technical sales people to service the local market.

HSSL continuously strives to exceed its customers’ ever-increasing expectations by developing innovative products, and AUTOTHANE is playing a major role in this strategy.

AUTOTHANE™ is an exceptional microcellular elastomer specifically developed for the manufacture of automotive suspension components.

The inherent dynamic performance of polyurethane enables the closed cell structure of AUTOTHANE to demonstrate enhanced performance versus traditional materials through its ability to withstand repeated high load compression while retaining its original shape. As an AUTOTHANE component is compressed, it suppresses and absorbs shock and vibration to help improve the vehicle’s ride profile. Its resilience enables it to repeat this high performance for a long time.

In addition to excellent hydrolytic stability and dampening properties, AUTOTHANE demonstrates exceptional resistance to chemicals, grease, ozone and microbial attacks, as well as to water, salt, oils and fuels. It is also virtually unaffected by extremes of temperature or climate.

When combined with innovative mould design and efficient manufacturing processes, AUTOTHANE is an excellent choice for mass production, and is used in many applications to help isolate road noise and vibration, such as jounce bumpers, spring aids, seals and gaiters and the rod isolators.

AUTOTHANE components are well suited to the rugged environment throughout India, and the joint efforts of Dow Hyperlast and HSSL will see the future introduction of both two and four-wheel vehicles with improved NVH and ride characteristics.

As an innovative polyurethane manufacturer, Dow Hyperlast is renowned for developing and manufacturing polyurethane systems, which are used in a variety of industrial and engineering applications. It is drawing on its vast research experience to develop new materials with an even higher content of renewable constituents that deliver both high-quality performance and are friendly to the environment.

For further information quote AD14/10

Environmental friendly table-edging from Dow Hyperlast reduces oil content

Dow Hyperlast, a leading global developer of specialized polyurethane elastomers, is working to reduce reliance on petroleum products and increase use of renewable materials with the development of its DURELAST 3321 table edging system which uses crop-based polyols as its major constituent.

DURELAST 3321 is increasing in popularity as more end users request eco-friendly materials for their premises. Edge 2 Detail Ltd of Ilkeston (United Kingdom) sought such a material when it began the redesign and refurbishment of more than 200 branches of a major UK banking client and needed high-quality desk and counter edging that met the client’s requirements.

Working with Dow Hyperlast, DURELAST 3321 was proposed as a very suitable material and after prototype furniture was completed, the first production orders were placed the same month.

DURELAST 3321 offers the main benefits of the DURELAST range – providing highly durable edgings and mouldings that are easy to maintain; safe, rounded edges and complex profiles following any curve or corner; seamless, hygienic moisture-resistant seals with composites, veneers and laminates; resistant to impact, abrasion and physical attacks – and is supplied in some 70 RAL (European Colour Standard) shades.

With more companies and organisations taking a greater interest in sourcing eco-friendly furniture and fittings for their premises, DURELAST 3321 is an excellent choice for use in banking, retail, office and education furniture applications.

For further information quote AD14/04

The combination of durability, with design freedom is unrivalled” added Nigel Patch, managing director of panel products manufacturer, Grant Westfield Ltd. “This technology presents tremendous opportunities for any designer of rail interiors.”

For further information quote AD14/03
A new prepolymer material developed by Dow Hyperlast is being applied to plates used in a transport conveyor belt at Egypt’s Cairo Airport to help improve both its appearance and safety.

**DIPRANE™ 64** – the product is based on proven DIPRANE quasi prepolymer technology, offers both durability and toughness, helping to provide both flame retarding and anticorrosion qualities essential in applications of this type.

Previously, the transport belt comprised metal plates painted black, which soon scratched and attracted dirt. The new belt comprises some 2,000 crescent-shaped plates coated with DIPRANE 64, which will not only wear better but look better too.

The DIPRANE 64 coating was applied by Ruma, a leading Benelux specialist in the covering of industrial rollers, while the conveyor belt itself was manufactured by Van der Lande, a specialist in automated material handling systems.

The DIPRANE range of quasi and full prepolymer systems provides engineers and processors an opportunity to exploit the versatility of polyurethane chemistry, offering durability and toughness through a hardness range of 25 to 95 Shore A.

The DIPRANE range of products offered for this application gives the processor a choice of materials to provide finished product with excellent tear and abrasion properties as standard and customised versions including antistatic performance to below 10^6 Ohms or solvent-resistant grades.

For further information quote AD14/09

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**HYPERKOTE™ protects**

**4x4s from wear and corrosion**

HYPERKOTE™ EMB85, Dow Hyperlast’s sprayable elastomer, is helping a Newport-based (United Kingdom) motor garage, Dawn & Dusk Ltd, to provide added protection against corrosion on its customers’ 4x4 and commercial vehicles.

When looking for a spray-on liner, Dawn & Dusk approached Dow Hyperlast’s engineers, who were able to develop a product that met its material needs and exceeded expectations in both properties and functions.

HYPERKOTE EMB85A is applied easily with low-pressure, dual-component dispensing equipment. Dawn & Dusk has received excellent feedback on the coating’s durability and toughness. Customers say that the coating provides a professional finish and has added benefits such as reducing noise during transit, cementitious substrates. As well as providing excellent abrasion and impact resistance, they also offer significant UV (ultraviolet) resistance.

Being virtually solvent free, all HYPERKOTE systems are VOC (Volatile Organic Compound) compliant.

HYPERKOTE products are suitable for marine and construction applications, as they provide cost effective long-term protection from corrosion and abrasive wear. Due to the coating’s elastomeric nature, the substrate can undergo a high degree of differential movement before its coating integrity is compromised. This is of fundamental importance, for example, when coating large, liquid containing structures.

The comprehensive range of HYPERKOTE products helps Dow Hyperlast to provide a coating system according to customer’s precise requirements.

For further information quote AD14/10

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**HYPERKOTE™ protects and waterproofs concrete**

The HYPERKOTE™ range of spray-applied elastomers offers an exceptional choice of rapid cure, fast application polyurethane, polyurea and hybrid coatings to help protect and “waterproof” concrete structures.

HYPERKOTE provides fully elastomeric, protective-membrane coatings that cure rapidly, are seamless, and by use of specialist primer products are fully bonded to concrete and other substrates. As well as providing excellent abrasion and impact resistance, they also offer significant UV (ultraviolet) resistance.

Due to the coating’s elastomeric nature, the substrate can undergo a high degree of differential movement before its coating integrity is compromised. This is of fundamental importance, for example, when coating large, liquid containing structures.

The comprehensive range of HYPERKOTE products helps Dow Hyperlast to provide a coating system according to customer’s precise requirements.

For further information quote AD14/11

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**ZAO Polyplast manufactures**

**AUTOTHANE™ in Russian Federation**

ZAO Polyplast, a division of ZAO Plastic, is the latest of six licensees to start manufacturing AUTOTHANE™ at its own factory in Chelyabinsk at the foot of the Ural in the Russian Federation.

ZAO Plastic is a main supplier of injection moulded components to Avtovaz, Russia’s leading auto manufacturer, whilst ZAO Polyplast specializes in steering wheel production. ZAO Polyplast’s initial manufacture of AUTOTHANE is for front and rear suspension of the new Lada models 1118 and 2118. Lada joins BMW, Ford, Mazda, Rover, Renault, General Motors, Volvo and other leading vehicle manufacturers using AUTOTHANE components to help minimise noise and vibration in domestic, commercial and sports motoring.

Five other licensees manufacture AUTOTHANE components in the UK, USA, China, Korea and Malaysia with full support from Dow Hyperlast.

For further information quote AD14/08

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**DIPRANE™ 64 on conveyor belts**

A prepolymer material developed by Dow Hyperlast is being applied to plates used in a transport conveyor belt at Egypt’s Cairo Airport to help improve both its appearance and safety.
The Nottingham Express Transit runs on the best possible lines

Following its successful use in the Midland Metro and the Manchester Metro extension, pre-coated rail of ALH Rail Coatings Ltd. (ALH) is now providing one of the best in-track infrastructures for Nottingham’s Express Transit system in the United Kingdom.

As well as the comfortable ride of this newly opened stretch of light railway, high performance levels are achieved due to the rails being embedded in a polyurethane polymer.

The ALH rail pre-coated with SERIES-SIX polymer from Dow Hyperlast was selected for the Nottingham Express Transit project because of its high electrical insulation, excellent vibration resistance, noise reduction, anti-skid and anti-corrosion properties.

Bradstone uses DURAMOULD™ moulds for landscaping products

Bradstone, a world-wide manufacturer of decorative, hard landscaping products, and one of the largest manufacturers in the United Kingdom, uses DURAMOULD™ supplied by Dow Hyperlast for moulding its landscaping products. At the Chelsea Flower Show, Bradstone supported the Salvation Army’s exhibit and paraded a range of bespoke moulded paving products. The display was striking, not only for its creative and inspirational appeal, but also for the inherent quality of the products it comprised.

“With so much on offer in the market place by way of paving and moulded artefacts, it takes a knowledgeable eye to appreciate the very high quality that we at Bradstone consistently demand of all of our products,” says Peter Britton, Bradstone’s Development Manager. “Vital to this is the excellence of the mould.”

Bradstone’s Development Manager. “Vital to this is the excellence of the mould.”

For the products in this display, Bradstone used DURAMOULD ET45A mould polyurethane. DURAMOULD is easily manipulated to reflect great precision of form and fine detail in moulded materials. It is, therefore, suited to manufacturing particularly complex products and offers a cost-effective way of producing short-run or specialist items.

For further information quote AD14/12

For further information quote AD14/13

For further information quote AD14/14

For further information quote AD14/15

DURAMOULD™ Fastcast EM73D brings speed and quality to rapid prototyping

DURAMOULD™ EM73D FASTCAST, developed by Dow Hyperlast, helps to increase both speed and quality for rapid prototyping, pattern-making and tooling applications.

An excellent alternative for pattern makers (especially for stonework simulation), prototypes and model makers, DURAMOULD EM73D FASTCAST is cold castable without the need for ovens or heated toolings and is applied in an easy 1:1 ratio.

With low viscosity enabling easy casting of intricate shapes, FASTCAST accepts fillers easily and controls shrinkage to less than 0.5% while providing excellent fingerprint reproduction.

Sprayable HYPERKOTE™ EMH85A produces moulds in minutes

The new sprayable HYPERKOTE™ EMH85A designed by Dow Hyperlast can be sprayed onto a natural pattern to create a mould in minutes, enabling extra fast product development for concrete products.

HYPERKOTE EMH85A is applied at a 1:1 volume ratio to produce excellent detailing and fingerprint reproduction. It has low viscosity and is solvent free as well as being tough, durable and lightweight.

HYPERKOTE EMH85A also offers low-cost product development for precast concrete products.

HYPERKOTE EMH85A complements the extensive DURAMOULD range of hand and machine mixable systems designed for mould-making rapid prototyping, pattern-making and tooling.

For further information quote AD16/13
XiTRACK™ improves rail ride comfort and safety

Facing the railway track engineers is the continuing problem posed by recurrent track faults at highly loaded track components and poor formations. These persistent faults over relatively small areas can generate significant delays in the network through Temporary Speed Restrictions and raise the possibilities of penalties and track closure on safety grounds. It is well known that such track defects can quickly return after conventional maintenance procedures and also after a general track renewal if the underlying causes of defects are not correctly addressed. Long-term civil engineering solutions often pose significant problems themselves, requiring a considerable amount of track downtime for construction and may generate undesirable fundamental changes to the dynamic behaviour of the track.

Over a period of seven years the XiTRACK™ process was developed to help solve these long standing issues, and hence provide a significant improvement in network running efficiency, using a process that quickly reinforces and stabilises the track, but can still allow all conventional maintenance procedures to take place. The XiTRACK technique has been specifically developed to address the demands of modern ballasted rail tracks with increasing train axle weight, line-speed and track usage coupled with reduced maintenance schedules. XiTRACK Limited continues to work with leading contractors to develop opportunities for the technology.

XiTRACK polymer treatment can restore track performance to intended levels by a single application of specially designed energy-absorbing polymers to ballast or other granular track structures to form GeoComposites. It can be used to improve overall performance of renewal sites by making a significant contribution to preserving track geometry and alignment over its working life. In order to obtain integrated solution and predict behaviour of the system post-treatment to achieve dynamic compliance, XI-SAT is underpinned by one of the most advanced computational methods currently available to model and analyse track behaviour calibrated using conventional on-site data acquisition systems. This type of data, along with site history and loading information, is used as the input for the design process for the GeoComposite and for post-treatment verification.

For further information quote AD14/16

DIOPLEX™ range combines performance with assurance

What is a polymeric plasticiser?

The DIOPLEX™ range of polymeric plasticisers includes those of high molecular weight and long-chain polyesters that range from easy-to-use, low-viscosity materials to the most sophisticated, customised plasticisers designed to withstand severe service conditions. DIOPLEX products are used in applications including food wraps/packaging; self-adhesive and electrical tape; industrial gloves, footwear and protective clothing; industrial hoses and tubing; seals, gaskets and closures; medical and surgical; automotive and many other applications and industries.

The DIOPLEX™ range

DIOPLEX 214 – a high viscosity, polyvalent polymeric employed by processors in both the coatings and PVC industries, it gives excellent resistance to extraction by a variety of solvents, oils and other products which can destroy other plasticisers and cut short the serviceable life of an end product. DIOPLEX™ VLV – is one of the lowest viscosity polymeric solutions on the market and is aimed at processors who require the flowing properties of phthalates for applications where higher viscosity products (such as DIOPLEX 214) cannot be used. With its benign profile, worker-friendly composition and no requirement for hazardous product labelling, DIOPLEX VLV is one of the most advanced computational method for predicting how these new polymerics being adopted more and more by processors requiring low viscosity, such as dip coaters, plastisol manufacturers and spread coaters. DIOPLEX VLV provides an assured solution for many of these customers. DIOPLEX 171 – recently relaunched with a new formulation – demonstrates how Dow Hyperlast not only keeps abreast of fast-changing customer demands and new legislation, but also helps to get ready for potential future regulations. Used in many formulations from nitrile rubbers, through to metalworking fluids, it consistently delivers the precise performance that your customers need.

For further information quote AD14/18

DIOPLEX™ VLV

- a new polymeric plasticiser

DIOPLEX™ VLV is a new polymeric plasticiser characterised principally by its low viscosity (50 – 100 cP’s at 25°C). DIOPLEX VLV is a versatile and highly efficient product that is easy to process. It offers similar handleability to standard monomers, yet provides an improvement in the level of resistance to extraction by various media when compared to monomeric counterparts such as DOP, DINP and linear phthalates.

The new product offers excellent Cold Flex properties that compare favourably with most phthalates and triacetates. Indeed, the benefits of this new launched plasticiser do not stop there: with its benign environmental profile, low viscosity DIOPLEX VLV becomes an essential ingredient in plasticiser formulations as a non-phthalate.

In application, DIOPLEX VLV is likely to be considered wherever a non-phthalate plasticiser is sought or where there is a need to improve the performance of non-polymeric applications. Applications will include any PVC-plasticised material (fabrics or steel), PVC spray application such as underbody coatings and other non-PVC, non-phthalate applications. Flattened toys, tarpaulins and thermal, pigment masterbatches and inks, gaskets and closures, industrial gloves (dip coating), protective clothing, technical coatings and low toxicity compounds all lend themselves to DIOPLEX VLV application.

New DIOPLEX™ 171 – versatile polymeric plasticiser

The new DIOPLEX™ 171 is a mixed acid polyphthalic plasticiser, designed for both packaging coatings and PVC-plasticised formulations for gaskets, seals and other closures. With low viscosity and hence ease of handling, the new version has an even more benign profile.

With all the raw materials contained in the Synoptic Document (2002/72/EC and subsequent amendments, DIOPLEX 171 offers more use as a plasticiser in internal/external coating applications where users seek improvements in extraction resistance from aggressive chemicals. It is also attractive to processors manufacturing PVC gaskets and closures, as it offers a flexible combination of extraction resistance and handleability.
TRAFFIDECK™ waterproofs concrete bridge in Finland in just five days

Waterproofing large areas of concrete bridges in poor weather conditions can be a problem, so when a motorway bridge in the city of Oulu in Finland required waterproofing, TRAFFIDECK™ was selected to enable the entire job to be completed in just five days.

TRAFFIDECK™ enabled 2,000 square metres of concrete to be primed, sprayed and finished during a five-day period by MJS-Group of experts. The TRAFFIDECK™ waterproofing system is compatible with a wide range of paints and finishes. A TRAFFIDECK™ team provided technical advice to help ensure the product supplied satisfied all performance requirements.

TRAFFIDECK™ Flex 3000HA creates a durable waterproof coating and was applied in five days to the Stretford Mall car park decks. The TRAFFIDECK™ manufacturer, Dow Hyperlast, has developed many products used in architectural and engineering applications. It developed TRAFFIDECK™ as a distinct alternative to traditional waterproofing techniques to provide benefits including high system thickness, fine detailing, fast application, instant setting of the membrane, application at low temperatures and a fast return to service. TRAFFIDECK™ is virtually odourless and solvent-free.

The result is demonstrated by the Stretford Mall, which now benefits from a combination of TRAFFIDECK™ anti-skid and waterproofing qualities, improved aesthetic appearance, durability, environmental friendliness and competitiveness – all enhancing the shoppers’ experience when they use the car park.

TRAFFIDECK™ wins a four vessel contract from LDA and Hoegh Shipping

The French/Norwegian joint venture of Louis Dreyfuss Armateurs (LDA) and Hoegh Shipping has chosen TRAFFIDECK™ anti-skid surfacing systems to treat four of their new vessels.

The first, the ‘Ville de Bordeaux’, built at Jinling Shipyard in Nanjing, People’s Republic of China, was treated with a TRAFFIDECK™ system applied by spray. Due to its curing instantly, the specified thickness is achieved within seconds, unlike conventional types of waterproofing, and it can withstand traffic within hours of application. TRAFFIDECK™ Grip 1000 also ensured that the overlay of the running surface was given a “shear key”.

TRAFFIDECK™ HV creates parking bays in 90 minutes

TRAFFIDECK™ HV is a 100% solids virtually solvent-free, high-build coating that can be applied quickly and cures fast so that parking bays are out of service for the shortest possible time.

TRAFFIDECK™ eliminates pedestrian water hazards in Taunton

At Riverside Walkway in Taunton (UK), slippery surfaces and structural damage to steel and concrete have been minimized using TRAFFIDECK™ polyurethane waterproof membrane system supplied by Dow Hyperlast.

TRAFFIDECK™ LD30 with 3 mm buff bauxite over a 100 square metre area of pathways and footbridges in just two days to provide a fast curing, virtually solvent-free coating with anti-skid qualities and waterproof protection for the concrete and steel decks.

With a 15-year design life when applied by approved contractors, TRAFFIDECK™ provides excellent flexibility and crack bridging properties, is quick to install and can withstand traffic virtually within hours.
HYPERLAST™ 100 reduces weight and cost of navigation buoys while maintaining visibility

Visibility is paramount for the effectiveness of marine navigation buoys, and HYPERLAST™ 100 has been selected by Herikon BV, specialist in design, development and production of customized, high-grade technical polyurethane molded products, to help ensure that the day marks on the navigation buoys it manufactures remain visible virtually at all times.

HYPERLAST 100 is tough, wear resistant and provides excellent impact strength. HYPERLAST 100 has been designed to be UV stable and colour fast for many years – essential for equipment such as navigation buoys.

The day marks, produced with HYPERLAST 100, comprise the upper, visible element of the navigation buoy. HYPERLAST 100, as an alternative to steel, has not only helped to reduce the cost of buoys, but has also made handling easier by reducing the weight.

Unlike steel, HYPERLAST 100 produces better performance in low temperatures with virtually no ice able to adhere to the polyurethane. This gives high visual identification in poor weather conditions, and maintains buoyancy in icy temperatures.

HYPERLAST 100 allows efficient production with its fast demould time with moulds running below 95°C. The surface of the urethane will accept both paint identification and vinyl lettering markings. Day marks are produced either in green or red, but now Herikon has developed a mould process to produce ‘cardinal buoys’ which combine two colors – yellow and black – with HYPERLAST™ 100.

Herikon is a world leader in marine applications and supplies navigation buoys with HYPERLAST 100 day marks to Rijkswaterstaat, the Directorate-General for Public Works and Water Management in the Netherlands and a world leader in buoyage manufacture development, for use on navigable waters in and around the country.

For further information quote AD14/04.

Dow Hyperlast Rescues the RNLI

When Appledore’s RNLI lifeboat, moored 300 metres offshore in the law and Torridge tidal estuary (UK), needed a new buoy that could withstand the hard-wearing tidal action and be buoyant enough to remain on the surface, HYPERLAST™ 7980306 came to the rescue.

HYPERLAST 7980306, a new resilient elastomer, helps to protect the new buoy, designed and moulded by Hippo Marine of Saltash, Cornwall as a 2-metre diameter mushroom with a radiused outer edge to minimize surface contact with the boat.

For further information quote AD14/01.

Test results confirm the improved temperature performance and remarkable durability of HYPERLAST™ Syntactic Deep Water flowline insulation.

The Glass Syntactic polyurethane developed by Dow Hyperlast to insulate and protect deepwater flowlines has just passed its latest and most rigorous test. HYPERLAST SYNTACTIC DW- 512™ coating, which performs at depths of up to 3,000 m, is one of the industry’s preferred oil pipeline insulation and protection systems. HYPERLAST SYNTACTIC has coated over 700 kilometers of pipelines and more than 35,000 field joints.

This demanding evaluation is the culmination of a 12-month procedure to measure the thermal insulation properties of HYPERLAST DW512/150 and DW512/300 flowline coating products, during which a section of coated flowline was subjected to the additional effects of the undersea environment.

For further information quote AD14/09.

Increasingly, HYPERLAST Syntactic DW- 512™ coating is the industry’s preferred oil pipeline insulation and protection system.

In the Gulf of Mexico Bredero Shaw has selected HYPERLAST DW-512™ to insulate developments in several of the Mississippi Canyon blocks at water depths of 1017 – 1650 meters. A 12" carrier pipe was insulated with 20 mm of Bredero Shaw’s Thermofloss® system at their Mobile, Alabama, facility, and at another relatively shallow development in this canyon, 12.8 kilometers of pipeline was coated and laid in 366 meters of water using HYPERLAST 2851512.

Still to come on line, Dominion E & P Triton Goldfinger is also located in Mississippi Canyon in blocks, 728, 771-773. This project lies in 1707 metres water depth. The riser is 6.625" in diameter with a wall thickness of 18.26 mm. The 507 joints were insulated by Trelleborg Inc. at their Houston facility using HYPERLAST DW-512 / 300 glass syntactic polyurethane elastomer system. FBE was the anti-corrosion coating. The operating temperature is 73.8°C and the design life is approximately 20 years.

For further information quote AD14/27.
Dow Hyperlast innovations help mining sector achieve RoHS compliance

Dow Hyperlast has developed two new materials - DIPRANE™ 58 and HYPERLAST™ 110 - aimed to help mining and materials handling component manufacturers comply with the European Restriction of Hazardous Substance (RoHS) Directive.

Both polyester-based DIPRANE 58 and polyether system HYPERLAST 100 provide excellent mechanical properties.

DIPRANE 58 is a three-component, quasi-polyurethane system with a hardness range from 45 to 90 Shore A. Its main application is in material handling, such as mineral and ore handling, and it offers high modulus, excellent tear and abrasion resistance across the hardness range. Not only tough and durable, DIPRANE 58’s RoHS compliance minimizes any restrictions on disposal at the end of product life.

DIPRANE 58 is already establishing an impressive track record in mineral handling screening applications as well as in the production of rollers and other industrial engineering components.

HYPERLAST 110 is a three-component quasi-polyurethane system with a hardness range from 60 to 90 Shore A. In finished moulding applications HYPERLAST 110 offers excellent mechanical, abrasion and tear performance, while its polyether composition delivers excellent hydrolysis resistance, making it especially suitable for use in humid and damp conditions.

While designed as three-component materials, Dow Hyperlast will supply both DIPRANE 58 and HYPERLAST 110 in two-component forms to specific hardnesses.

Customers can easily pigment both products, although Dow Hyperlast will provide customized colour versions for high-volume sales. Supplying as three-component systems means that the customers have lower stock requirements compared with two-component systems to cover the same range of hardnesses. These new products are the latest additions to the enhanced DIPRANE™ and HYPERLAST™ product ranges developed and supplied by Dow Hyperlast.

For further information quote AD14/29