CREATING POSSIBILITIES TOGETHER · AUTUMN 2019

It's Small: Downsizing as a Living Trend

ALSI AVAILABLE

In Development: New Recycling Process

In the Twinkling of an Eye: Tiles for Bathroom Renovation

VISION AND PIONEERING SPIRIT: MILESTONE FOR TRANSPLANTS

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Modern wind turbines – such as this one from Vestas – make a significant contribution to the transformation of energy systems worldwide. Photo: Vestas Wind Systems Ay

with the development of recycling systems for all of the important PVC building products: an early pioneering achievement for greater sustainability and a commitment that the industry is now further intensifying together with the European sustainability programme VinylPlus[®].

High Medical Standards

It is remarkable how versatile the material PVC is used in ever new products. Progress and pioneering spirit are reflected, for example, in a large number of healthcare applications. Sterilizable blood bags, kink-resistant tubes and hygienic disposable gloves are indispensable. They ensure reliable patient care during transfusions, infusions and dialysis as well as high hygienic standards. Just like infection-inhibiting wall and floor coverings in intensive care areas and in operating theatres. The impermeable and easy to clean combination of these vinyl coverings meets even the most demanding hygiene requirements

THE FUTURE NEEDS VISIONS

When the German chemist Fritz Klatte was granted a patent for the production process of PVC in 1913, his pioneering spirit set a huge success story in motion. Today, more than a hundred years later, PVC has become one of the most important plastics in the world. This is mainly due to the fact that the material is constantly reinventing itself and continuously demonstrating its innovative strength through the development of modern

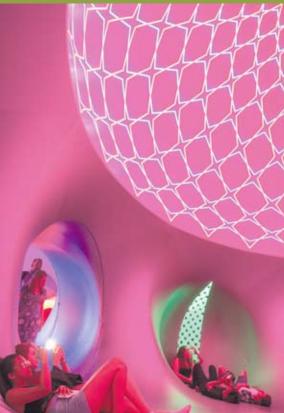
applications.

ost of the PVC produced, about 70 percent, is used to make very durable building products. Sustainable applications such as energy-saving windows, floor coverings, pipes, cables and roofing membranes have proven themselves over many years and are extremely successful on the market. Examples are plastic windows with a market share

of around 60 percent or vinyl design flooring, which has been recording high growth rates for years. This success is not only due to various innovations that affect the technical properties of the products. Design, which, thanks to modern coating methods and digital printing, for example, offers a wide range of options, also plays a major role in this popularity. Plastic window profiles in all imaginable colours and easy to clean design flooring in attractive wood decors offer aesthetically sophisticated solutions.

Pioneers for Sustainability

The industry laid the foundation for the acceptance of its products back in the early 1990s





CONTROLLED DRAINAGE

Climatic changes, which manifest themselves as heavy rainfall and exceptional dry periods, are increasingly becoming a problem. Either there is too much water in a short time or too little water over a longer period. This calls for solutions for an ecologically sensible use of rainwater. A newly

developed PVC tank for rainwater meets the new challenges by ensuring controlled drainage.

ur sewer system is not designed to cater for events of the century such as extremely heavy rainfall. A corresponding dimensioning of the networks does not make technical sense and ultimately cannot be financed. We must therefore find alternative solutions to protect buildings and other infrastructure effectively. In addition, even in our latitudes, we are experiencing increasingly extreme and prolonged droughts in which network opera-

The innovative D-Raintank 3000 can, for example, be used for roof and terrace drainage. tors can no longer provide sufficient water. With the help of new technical solutions, opportunities are opening up through modern



Energy Turnaround with Wind Power

Vision and pioneering spirit were also at play when wind energy took off in the early 1990s: with a very satisfactory result. Germany now has a total of 30,518 onshore and offshore wind turbines with a total capacity of 59 313

Artificial Underwater Forest

The longer a product remains in use, the more efficient and resource-saving it is and the sooner the vision of a sustainable future can become reality. A project from Norway demonstrates this impressively. Artificial for-



stabilizer from BASF has extended the shelf life of oil booms exposed to strong sunlight at sea. The polyester fabric impregnated with a mixture of PVC and TPU is thus much more durable. This is an effective measure to reduce the consumption of resources and the maintenance costs of oil barriers.

Visions in Art

Artists also have visions and are pioneers in their field. A good example of this is the British artist Alan Parkinson. With his crew "Architects of Air" and wonderful inflatable sculptures called "Luminaria" he goes on tour and enchants the world. The walk-in rooms made of coloured PVC tarpaulins form a labyrinth of winding paths and floating domes with incredibly beautiful light effects that take visitors into unique worlds of colour. Parkinson's latest work is called "Albesila". It is a 45-meter-long installation consisting of a total of 27 PVC inflatable domes.

sila". It is a 45-meter-long installation consisting of a total of 27 PVC inflatable domes all connected to each other and five meter high: a breathtaking production that fascinates people from all over the world.



Whether in operating theatres, CT or MRT rooms: the use of vinyl wall and floor coverings meets the most demanding hygiene requirements. Photo: A

megawatts. According to Fraunhofer ISE, in the first half of 2019 solar panels and wind turbines generated more electricity than even coal-fired power plants. The rotor blades of wind turbines in lightweight construction are often manufactured with cross-linked PVC foam, which despite its low weight has high strength and rigidity: a material with low resource consumption that makes an important contribution to energy system transformation.

The new pneumatic installation "Albesila" consists of 27 walk-in domes and transports visitors into unique worlds of colour and light. Photo: Alan Parkinsor ests of kelp have been created in several fish farms there. The meter-long algae strands serve as a habitat for the fish. The previous plastic system had to be renewed every six months. Now it has been replaced by a new system of PVC membranes, which has a service life three times longer than the previous solution and can be recycled into roofing products after use.

Sometimes the further development of products involves recipe changes that vary individual properties. For example, a new light

In the exhibition "Cylinder & Bots" by the Düsseldorf artist duo Banz & Bowinkel, Augmented Reality (AR) combines real space with computer-generated avatars that seem to move on real vinyl prints.

Photo: visuals united ag





The storage capacity of the PVC system, which offers plenty of space for the camera inspection, is 97 percent.

ally released into the subsoil. The high loadbearing capacity is ensured by the statically optimised construction and the use of resistant rigid PVC with a high modulus of elasticity. The construction with four load-dissipatditches (French Drains) only achieve a storage capacity of around 30 to 35 percent, the PVC system reaches 97 percent. The elements are delivered to the construction site ready for installation and can be arranged to save space

Sustainable and modern: This student residence in Munich was equipped with approx. 590 plastic windows and doors as well as about 10,500 square metres of easy to clean vinyl flooring. Photo: GS SCHENK GmbH, Fürth, German

rainwater management to deal with increased 'unsealing' of land areas and local infiltration of surface water.

The construction with four loaddissipating columns per element ensures optimum force transmission to the surrounding soil.

Innovative Infiltration

Against this background, Funke Kunststoffe GmbH, Germany has developed the D-Raintank[®] 3000 (600 mm L x 600 mm W x 600 mm H). This is placed in an infiltration ditch, acting as an underground reservoir in which rainwater is collected and then graduing columns per element ensures optimum force transmission to the surrounding soil. The position of the individual drain elements, which can be flooded three-dimensionally and which can be stacked three elements high, is ensured by blue 4-way connectors.

Storage Capacity 97 Percent

The low-maintenance system is suitable for roof, yard, parking area and road drainage, for the drainage of industrial areas as well as for combination with a trough-channel or a filter chamber. It can also be used for the overflow infiltration of a rainwater harvesting system. While conventional gravel-based infiltration

and installed easily. The outer sides are provided with special rastered side panels. These are not required on the inside, so that camera inspection and inspection in all directions are possible at any time.

Since its market launch, the product has already been used in many civil engineering projects. For example, in a development area in Rheinland-Pfalz (Rhineland-Palatinate), where the rainwater is discharged via a trough into a drain body consisting of several thousand D-Raintank[®] 3000 elements. intr www.funkegruppe.com



The donor liver is connected to the overall system with the aid of the cannula set.

In Germany, there are about 9,500 people on the waiting list for a donor organ, 850 of whom are currently waiting for a liver transplant. As soon as a suitable organ is found, time is running out. After removing the donor liver, the surgical team only has about eight hours to transplant the vital organ and reconnect it to the bloodstream of the recipient. In the meantime, the liver is preserved in a cool box at low temperatures. The short lead time makes this type of transplant difficult to plan. The British company OrganOx has therefore worked on a new solution and developed a device with which the donor organ can be artificially supplied with blood "ex vivo", i.e. outside the body, for up to 24 hours. An integral part of the new "metra" system is a complex tubing set, which is manufactured by

MORE TIME FOR TRANSPLANTING

About 870 liver transplants are performed annually in Germany. The chances of success for such an operation are good. However, the fact that the donor organs, which are essential for survival, had to be transplanted in just a few hours after their removal has proved problematic. A new device for liver transplants, which works with a complex tubing set, now triples this time span to up to 24 hours.





Dr. Jochen Zimmermann, AgPR (l.), and Andreas Höhn, Innovation Manager and Project Manager "Circular Flooring" at Vinnolit (r.), at the recycling plant in Troisdorf, Germany. Photo: Vinnolit

VC manufacturer Vinnolit is working on this new technology together with eleven companies and research institutes from five European countries, including the stabiliser manufacturer Chemson and the Working Group PVC Flooring Recycling (AgPR Arbeitsgemeinschaft PVC-Bodenbelag Recycling). The "Circular Flooring" project, coordinated by the Fraunhofer Institute for Process Engineering and Packaging (IVV), is based on CreaSolv[®] technology and is funded by the European Union.

Recycling of PVC Flooring Today

Until now, it has been common practice to mechanically process almost all PVC waste that will be recycled. First, the non-PVC components are removed, impurities separated and the PVC components ground. The PVC recyclate is then processed into new products. This approach allows PVC to be used several times as a highquality material. Already today this saves valuable resources. However, in this process additives which have been used in the past are also contained in the material, which restricts the many possible uses of the recyclate for new products.

RECYCLING

AT A NEW LEVEL

Easy to clean, hard-wearing, hygienic and chic - PVC floor coverings convince with many

advantages. For example they can be recycled at the end of their life span. Now a new technol-

ogy is being developed that is intended to take the recycling of used PVC floors to a whole new

level: an important contribution towards saving valuable resources and keeping them in the

circular economy.

Used PVC floor coverings are recycled and are a valuable raw material. Photo: AgP





RAUMEDIC and assembled manually in the clean room. It is remarkable that it consists of over 200 components, including PVC and silicone tubes, connectors and product-specific moulded parts.

Complex System

Shortly after the liver is connected to the innovative transplant device, the tubing set fills with the "blood reserve". As an artificial heart, the pump head transports the blood

With "metra", a device for liver transplantation, the function of the donor organ can be maintained outside the body for about 24 hours. The oxygenator in the middle of the picture is connected to the other system components via a complex tubing set and takes over the function of the lung.

via tubes into the oxygenator. The oxygenator takes over the function of the lungs, enriches the blood with oxygen and regulates it to body temperature. Syringes also supply the donor organ with the necessary nutrient solutions. The blood-carrying tubing made of soft PVC offers very good recovery during use and is characterised by good blood compatibility. In addition, the material can be combined very well with other materials.

Trend-setting Technology

"We are proud that our company can make a contribution to this revolutionary technology with the complex tubing set," explains Axel Wunderlich, application engineer at RAUMEDIC, who has been in charge of the project since 2009. The company now supplies several hundred tubing sets per year to transplant clinics. The signs are good that more and more patients will benefit from this pioneering technology. In February 2018, the Innsbruck Transplant Centre was one of the first centres in Europe to introduce the innovative device outside of a clinical study. The worldwide approval process for the transplantation device has also begun.

infr www.raumedic.com, www.organox.com



Modern PVC floor coverings are easy to clean and available in many designs

Photo: Tarkett

The Future of Recycling

Over the next few years, Vinnolit and its Euro-

EDITORIAL HUMANITY FOR CLIMATE PROTECTION

In the "Fridays for Future" movement, young people full of pioneering spirit stand up for a healthy climate and a future worth living in. With its aim to limit global warming to below 1.5 degrees Celsius, the campaign around 16-year-old environmental activist Greta Thunberg is making its voice heard worldwide and is now being reinforced by other age and social groups. At the same time as the recent climate strikes, the German government has presented a key issues paper for more climate protection. The aim is to actually achieve by 2030 the target already set of reducing greenhouse gas emissions throughout Europe by at least 40 percent compared to 1990.

The package of measures, which for some does not go far enough, also affects the building sector and is to be implemented this year by law. In order to reduce emissions in this sector to a maximum of 72 million tonnes of CO_2 per year by 2030, measures for the energy-efficient renovation of buildings – as long announced – are finally to be tax-assisted. For example, those who replace old windows with modern thermally insulated windows should be able to reduce their tax liability – spread over three years - by 20 percent of the costs. This is a good opportunity to switch to energy-saving plastic windows which have a market share of almost 60 percent. At the same time, the existing subsidy programmes are to be retained and bundled together in the newly conceived 'Bundesförderung für effiziente Gebäude' (Federal Subsidy for Efficient Buildings) and optimised in terms of content. In future, a 10 percent increase in funding for individual measures is to take effect here.

There are also plans to improve the energy advisory service for residential buildings, which should take effect, for example, when owners change: this is a sensible measure to increase the low energy modernisation rate which currently stands at less than one percent. An important building block for achieving all these goals is the use of resource-saving, energy-efficient and durable PVC construction applications such as window profiles, pipes, floor coverings and roofing membranes, which are recycled after use in a sustainable closed-loop economy and processed again into new products.

Thomas Hülsmann Editor of STARKE SEITEN / THE VINYL EDGE

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The Circular Flooring project for PVC floor coverings is a strong test of the CreaSolv[®] solvent-based process. At the end, PVC should again be available as a material that is as pure as possible. For this purpose, the PVC waste is first dissolved in a solvent and the recovered PVC is then precipitated again. The aim is to obtain a PVC recyclate that achieves almost "virgin quality" and thus allows a high degree of flexibility with regard to new formulations and applications. The recovered PVC recyclate will then be reused for the production of new floor coverings. pean partners will work together to transfer the new recycling technology from the laboratory to technical scale. "Vinnolit will carry out detailed application testing and evaluation of the PVC recyclates generated with the CreaSolv[®] process in its modern PVC application center in Burghausen. In this process the potential of the recyclate will be determined with regard to future applications," explains company spokesman Dr. Oliver Mieden. "In this way, we are actively supporting the transition to a circular economy."

infr https://www.ivv.fraunhofer.de/de/recyclingumwelt/creasolv.html

IMPRESSUM

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Cover picture: transplant device "metra" by OrganOx Photo: RAUMEDIC AG



The world's first PVC filament for 3D printing is suitable for the production of prototypes and end components. Photo: Chemson Polymer-Additive A

Flooring

Luxury Vinyl Tiles (LVT) have become an increasingly popular flooring solution for both home and commercial applications. Not only do they meet the creative demands of designers, but they are also extremely durable and sustainable as PVC can be easily mechanically recycled numerous times.

Preserving Water - Providing Power

Special PVC sheet was developed to prevent evaporation of water from reservoirs while simultaneously harvesting solar energy. This innovative solution used in semi-arid countries across the globe for drinking water applications. This is due to their outstanding mechanical properties, such as high strength and high ductility. Furthermore, bi-oriented PVC pipes are light-weight, flexible, have a low carbon footprint and an excellent resistance to slow crack growth.

3D for Vinyls

The world's first PVC filament for 3D printing has recently been developed and is particularly suitable for the production of prototypes and end components. This amazing new technology, combined with the unique properties of PVC, opens very promising development perspectives.

PVC, CONTINUOUSLY REINVENTING ITSELF

'Déjà vu' is what most likely pops up in your mind when you think about PVC applications, but

appearances can be deceiving! There are many examples of PVC enabling key technical innova-

tions that allow us to sustainably tackle the challenges of today's society.

rom Algae to Biofuel

Innovations in PVC are proving to be instrumental in increasing the viability of cultivating algae as a biofuel. Transparent PVC piping systems are used as photobioreactors for algae cultivation because they allow maximum light penetration, which is essential for accelerating photosynthesis and increasing the algae biomass.

Solar Roofing Membrane

PVC was first introduced as a roofing membrane in the 1960s, and has become a material of choice in the industry due to its durability. Recently, scientists have merged the advantages of PVC roof sheeting with sophisticated photovoltaic (PV) cell technology to produce thin-film PV cells. This exciting development provides robust roof sheeting that also generates renewable energy.





Transparent PVC piping systems are used as photobioreactors for algae cultivation.

Photo: © IGV Biotech - commons.wikimedia.org

comprises a special opaque, foam-backed PVC sheet that is laminated with flexible thin-film solar cells.

Stretching PVC Pipe Performance

Bi-oriented PVC pipes are increasingly installed

Luxury Vinyl Tiles offer great creative freedom, but are also extremely durable and sustainable.

Photo: © Ruslan Gilmanshin - stock.adobe.com

At Vynova we believe that the versatility of PVC helps create, innovate and find unlimited technical solutions to everyday challenges. In two words: indispensable PVC!

Discover more about innovations in PVC on our website www.vynova-group.com or follow us on Twitter (@Vynova_Group) or LinkedIn (Vynova Group).

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IN THE SMALLEST OF SPACES

Living space is scarce and becoming more and more expensive. This is why affordable alternatives such as tiny houses, which enable comfortable living in the smallest of spaces, are in demand and are currently booming enormously. An entire tiny house village is now being built



in the Fichtelgebirge Nature Park in Germany. One of the small houses is equipped with modern

energy-saving plastic windows and attractive designer vinyl flooring.

f you want to live affordably and sustainably, you are bound to think about reducing the size of your living space. The idea of "downsizing" has been consistently implemented in the tiny house. It is not only about smaller living areas, but also about space-saving arrangements in the kitchen, bathroom and sleeping place, in order to make living as comfortable as possible. And it's all about flexibility. Tiny house bodies on special trailers with

a total weight of less than 3.5 tons are approved for road traffic and can be conveniently transported from place to place in the event of a move.

Minimalist and Close to Nature

With a lot of pioneering spirit Stefanie Beck and Philipp Sanders fulfill their dream of a tiny house community on a former camping site in the Nature Park Fichtelgebirge in Mehlmeisel, The new home of the founders of the tiny house village is multifunctional and serves as reception, office and apartment at the same time.

where they offer 35 plots for small houses. "It is important to us to create a place where people of all kinds can break out of their hamster wheel and consumer behavior in order to lead a happy life together," explains Sanders about this near-natural residential offer, which also offers plenty of space for joint activities. 30 inhabitants have already settled here. A trial stay of several days in one of the tiny house hotels is definitely desir-



RENOVATED IN AN INSTANT

The renovation of damp rooms such as bathrooms is often put on the back burner. No wonder: simply knocking off old tiles is tedious and labour-intensive, and also involves a lot of dirt and high costs. Newly developed integral foam sheets made of PVC show that there is another way. Unattractive wall surfaces such as old tiles can be hidden in an instant behind their appealing, diverse designs.



ith KömaStyle, a newly developed product line from profine GmbH, KÖMMERLING Kunststoffe, Business Unit Sheets, older wall surfaces can be renovated in no time at all and damp rooms such as bathrooms can be significantly enhanced. Customers can choose between the three product variants

The installation of integral foam sheets enables fast and clean renovation of walls in damp rooms such as bathrooms. Elegant look: The wall surfaces of this bathroom are clad with KömaStyle boards in various designs.

Deco, Uni and Design for visual effects and surface appearance. The products from the Deco range combine the know-how of two companies: The surface of the integral PVC foam sheet is coated with decorative films from Continental. These vinyl films are particularly resistant and therefore well suited for use in damp rooms. The Uni boards have a glass-like coating and are available in gloss or matt versions. With KömaStyle Design, customers receive a digitally printed motif panel with a special coating. A total of 19 timeless decors, six plain colours and various print motifs are available, so that there are virtually no limits to wall design.

Simple Processing

The innovative panels are characterised by their non-porous surfaces, so that lime, dirt and soap residues can practically not adhere. The elements can be sawed, drilled and sanded effortlessly with conventional tools, so that simple processing is guaranteed. The integral foam sheets are applied directly to a loadbearing substrate such as tiles or plaster using a surface adhesive: quickly and cleanly – without prior time-consuming and dirty tile work. Unpleasant or defective areas disappear behind visually attractive and maintenance-free wall surfaces. As the wall cladding combines functionality, aesthetics and efficiency well, the



Fresh appearance: The sheets in light wood design enhance this bathroom significantly.

Versatile Use

Processors can use the sheets in many different areas, for example:

- wall coverings in the sanitary area
- back walls in showers
- showers
- swimming pools

- interior redesign, for example in hospitals, nursing homes and doctors' surgeries, hotels and wellness oases. product is extremely popular with processors and end customers. Infr www.komasheets.com/en, www.koemastyle.com, www.skai.com/interior

able in order to test the new form of ilving beforehand and to get to know the community. The two village founders developed the Scandinavian-style hotel "Nordic Fjöll" on their own and completed it in 2017. Measuring only 16 square metres, it looks like a modern three-room apartment. In order not to exceed the transport weight of 3.5 tons, the mini house has been built using lightweight construction throughout. Nine double-glazed

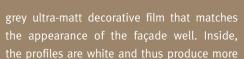


Bright, modern and functional: the tiny house "Nordic Fjöll" convinces with its functional room layout and classic Scandinavian design.

operators looked for a serious partner who could build the "Nordic Fjöll". They found what they were looking for at Tiny House Diekmann, where the house is now being produced. Here,

plastic windows and a double door ensure a high level of natural light inside the house. The SOFTLINE system from VEKA with good sound and thermal insulation offers high stability and is finished on the outside with an anthracite





From the outside, the window and door profiles of the tiny house set design accents with an anthracite grey ultra-matt decorative film. brightness. Easy-care design vinyl flooring in oak decor form a beautiful contrast to the bright interior design.

Successful "Nordic Fjöll" Model The mini hotel has been fully booked since it opened. Due to many requests, the village customers can configure their home individually and vary, among other things, facade paint, furniture and vinyl flooring.

Since November 2018, a second tiny house with a footprint of three by eight metres has been completed, which Beck and Sanders use multifunctionally as a reception, office and apartment. With a weight of around eight tons, this heavy version can be transported by crane or low-loader. Due to the positive experiences in the first mini house, windows and doors made of VEKA profiles are also used here.

used here. infr www.veka.de, www.tinyhousevillage.de



DYNAMIC STYLING

Pioneering spirit, willingness to take risks, innovative strength: In hardly any other field are these three aspects so closely interlinked as in international motor sport. Here, vehicles are developed and subjected to extreme stress in tough competitions with the aim of continuously optimizing individual features and thus preparing them for use in new vehicle series. The cars owe their racy appearance both to their sporty design and their

individual styling through elastic PVC films.

Find Bernhard is one of the most successful racing drivers. During his career, the Porsche works driver has won almost everything that was possible. At the Nürburgring alone, he clinched overall victory five times in the 24-hour race. Also legendary is his 5.19 minutes lap of the Nürburgring-Nordschleife in June 2018 in a 1,160-hp Porsche 919 Hybrid Evo. fractions of a second deciding victory. The visual design of the 550 hp power vehicles with start numbers 17 and 18 was developed by Bernhard in-house. Digitally printed elastic PVC films were applied to the dark carbon body of the sports cars to give them a unique appearance. Lightweight films were applied to a lightweight body, as every additional gram has an effect on the racing result. The truck, which



Personalisation in Racing



Concise and dynamic: In motorsport, the design of the sports cars signals affiliation to the respective racing team and is a good advertising medium for sponsors.

With starting number 17 Timo Bernhard and team mate Klaus Bachler competed in the ADAC GT Masters.

and saves valuable resources. In addition, the presentation of the sponsors on the vehicle makes it easy to see who is committed to motorsport and who is helping to put innovations on the road.

Like a Second Skin

The film cover, which is applied to the vehicle like a second skin, can be removed from the racing car bodies without leaving any residue if changes in appearance are desired. This allows the outer shell to reappear undamaged in its original condition: an advantage that many companies also appreciate, who can design their vehicle fleet according to their guidelines with vinyl films and sell it again at a good



Porsche works driver and racing pilot Timo Bernhard has clinched many victories in all the major long-distance sports car races and circumnavigated the Nürburgring-Nordschleife in just 5,19 minutes.

price after a few years, once the coating has been removed. Whether corporate and taxi fleets or rescue and military vehicles, the film coating allows vehicles to be temporarily personalised and then restored to their original condition.

Looking Ahead

By the way, next year Porsche will also be starting in Formula E, the world's first all-electric racing series. There too, foil-coated racing cars will be competing. In addition, the vehicle manufacturer has recently started offering the "Second Skin" foil service. Porsche owners can choose between many different designs inspired by current fashion trends and motorsport classics.

infr www.team75motorsport.de, www.team-bernhard-design.de, www.adac-gt-masters.de/uk, www.secondskin.design

Technology Meets Design

The globally successful sports car driver also heads the KÜS Team 75 Bernhard, a motorsport stable that also relies on the proven car brand. The team started with two Porsche 911 GT3 R in the ADAC GT Masters, one of the world's leading racing series for GT3 class sports cars. In tough competitions, some 30 super sports cars from eight brands such as Porsche, Audi, Ferrari and Mercedes strive for first place, with transports the racing cars and the equipment to the events and serves as a meeting and recreation area on site, was also coated with vinyl film and can therefore be clearly assigned to the successful racing team.

View from above of the 550 hp Porsche 911 GT3 R.



