



## Innovations for energy-efficient buildings

### Climate change is not an issue of tomorrow

The building sector has recognized this for a long time and is working on resource-saving solutions with the goal of achieving a circular economy. As a plastics processor that not only meets the needs of customers from the construction sector, but also for the environment and climate protection, CaPlast is also in the middle of a sustainable transformation.

On the one hand, this means the development of innovative, resource-saving solutions for more energy-efficient buildings. On the other hand, we are working hard to reduce our own CO<sub>2</sub> footprint through measures such as Green electricity, recycling or the development of a circular economy together with our customers and suppliers. In this news, we will guide you through the topics that particularly concerns us: **Waterproofing systems, recycling, flame retardant facade membranes and TPO tarpaulins.**

### Into the future with Kingspan

Sustainable and energy-efficient construction is increasingly contributing to the increase in value of real estate. Many projects are DGNB, BREEAM or LEED certified or must be established in compliance with ESG. With our products, we pay on evaluation criteria such as energy efficiency, recyclability, climate-neutral building materials and circular economy.

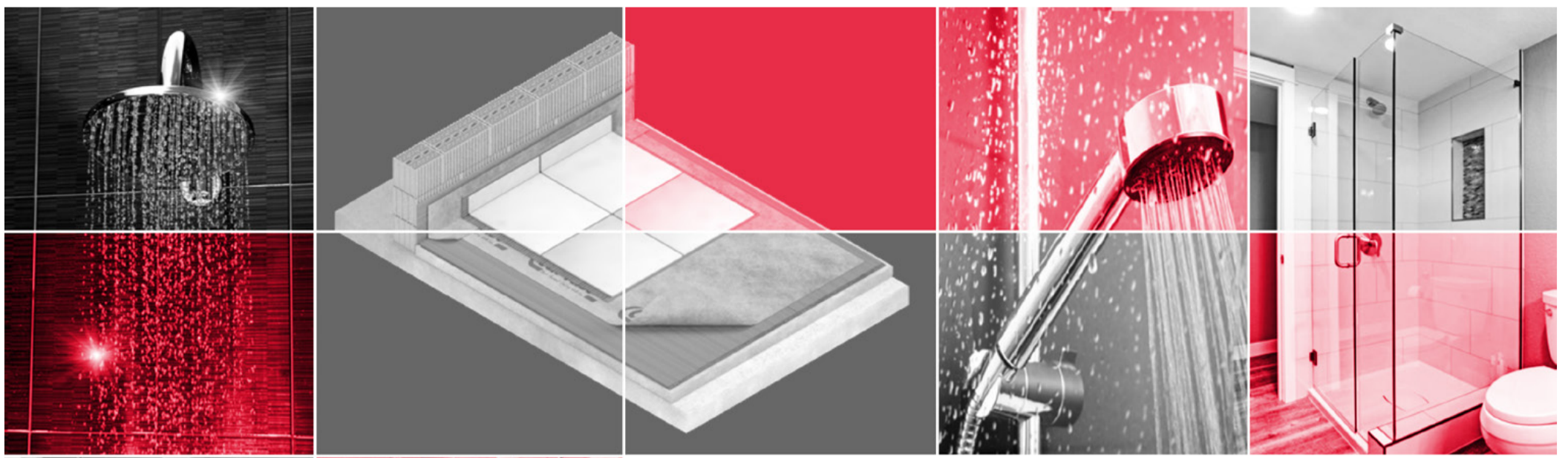
In order to be able to further expand our current pace of development, we need strong partners. We are pleased to inform you that CaPlast will not only have a committed Owner, but also a profound industry expert at his side. Together with the worldwide leading provider of high-performance insulation solutions and energy-efficient systems for the building envelope, we will strategically develop our successful business model. If you have any further questions about this acquisition from Kingspan, please contact us at [sales@caplast.de](mailto:sales@caplast.de).

We are forward to starting the next chapter of the CaPlast story together with you. Let's start at the BAU 2023 in Munich!

We look forward to talking to you.

**Your CaPlast Team**  
You will find us in hall B6, booth 227





## Waterproofing in the system under tiles, panels, wall and floor coverings

For over 55 years, CaPlast has been known for developing tailor-made solutions of excellent quality. In addition to a standard system range, we develop tailor-made products together with our customers and system solutions for the extensive topic of „sealing in the system“. You have the choice of a wide range of extruded or film-based sealing, decoupling and screed sheets, sealing tapes, cuffs and deep-drawn corners from our own production.

Of course, we support our customers in applying for approvals and certifications such as ETA-EAD, ABP, Syntef, CSTB. A large number of these tests are carried out by our trained specialists in approved testing institutes prepared and carried out in accordance with standards. Since the sustainability aspect is important, CaPlast also has homogeneous and thus 100% recyclable variants in its system portfolio.

„It's always about the best solution to achieve unique position and competitive advantages for our customers. That's why we don't offer any products off-the-shelf, but design every single product from A to Z with our customers; starting with the specific properties, from dimensions and colour to confection, packaging and shipping“, explains Key Account Manager Pierre-René Linne.



## Strong and light at the same time: TPO-based tarpaulin CaLiner

Tarpaulins for greenhouses, agricultural buildings, large tents, mobile stadiums, ship tarpaulins, pool cover, bulk packaging and much more are one of the last PVC domains.

Until now, pure solutions with polyolefins as a basis were not possible. We wanted to change that, because weight, stiffness, plasticizers as additives, the development of toxic flue gases in the event of fire and the difficult reprocessing are just some of the disadvantages of this material. So we set out to create eco-friendly technical textiles and redefining construction.

### Our solution: CaLiner tarpaulins

„The new tarpaulin for greenhouses with innovative copolymer coating is not only functional, but also thanks to the high degree of light transmission, it is also aesthetically pleasing,“ explains Key Account Manager Jan van Egten. CaLiner can fit perfectly for the desired properties in terms of UV and weather resistance, water resistance, transparency, tear resistance or fire resistance in which they can be produced.

In addition, we are in the process of developing completely recyclable tarpaulins for various other applications. Thanks to the lower specific gravity of polyolefins, CaLiner is light, durable and easy to handle.

### CaLiner advantages at a glance:

- 50% longer lifespan
- 20% lighter
- 100% recyclable (on request)
- Excellent temperature resistance from -30° C
- Free of plasticizers and solvents
- Suitable for contact with food







# CaPlast is a pioneer in environmental protection and sustainability

CaPlast ranks among the top 1% of all 90,000 companies evaluated in 2022 and achieved EcoVadis Platinum excellence.

EcoVadis is the world's leading provider of sustainability ratings for companies. For three years, CaPlast has been one of the companies that undergo the demanding audit. After silver in 2020 and gold in 2021, we were already able to achieve the highest possible platinum award in 2022. That's why we count in the top 1% of the more than 90,000 companies evaluated.

**CaPlast Kunststoffverarbeitungs GmbH has a Big Four:  
Certification according to standards ISO 9001|14001|50001|45001**

As part of its responsible corporate policy, CaPlast has for some time been implementing a strict safety culture established for workplaces, facilities, products and transport. With certification according to ISO 45001 we have now also completed the Big 4 of management systems. The systems according to ISO 9001, ISO 14001 and ISO 50001 are already successfully lived by CaPlast.



## NEW flame retardant facade membrane building material class B

For high demands on fire protection and the protection of the building envelope: Thanks to the innovative design the permeable facade membranes CaWrap UV 200 FR meet the requirements of building material class B according to EN 13501-1. They thus set standards in energy-efficient, visually sophisticated facade systems.

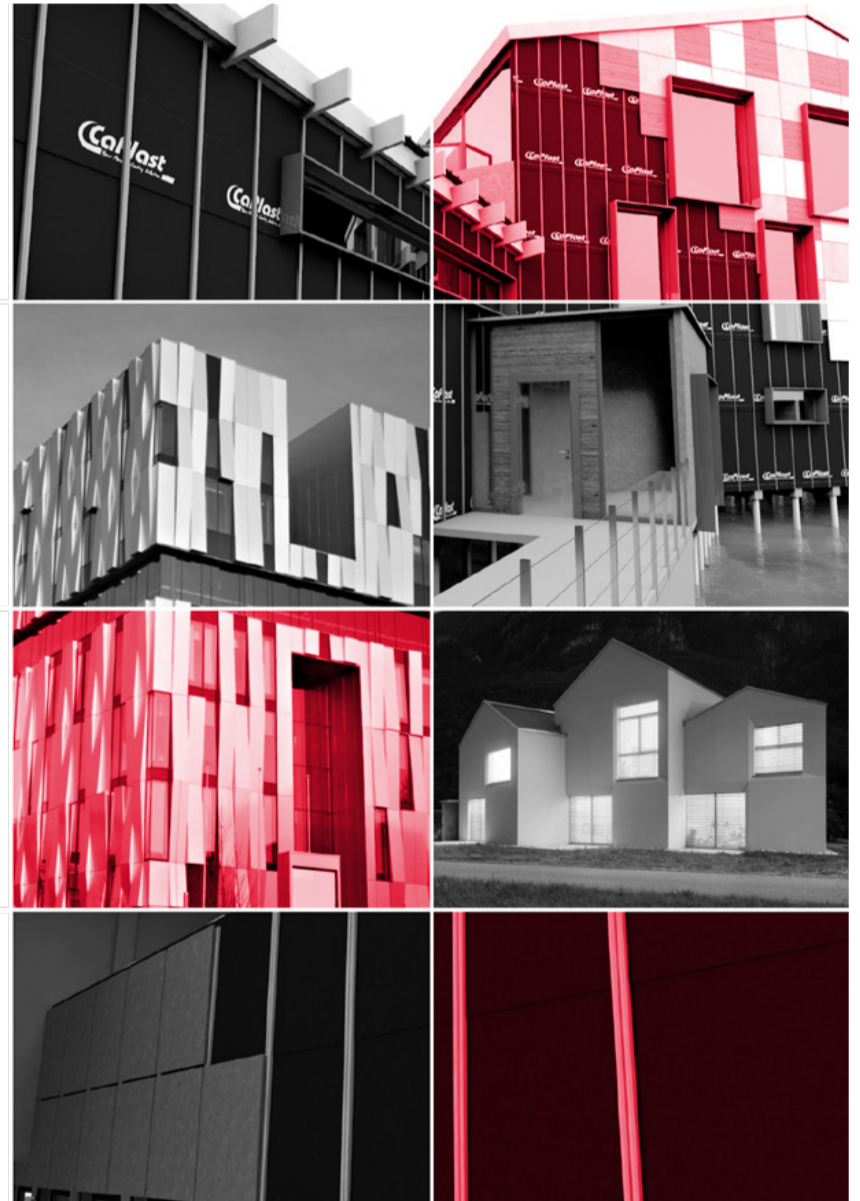
They are flame retardant and contribute to delayed fire transmission within the facade. That way, they protect people and buildings and are also pioneers when it comes to energy efficiency.

Especially for use in special constructions such as schools, hospitals and nursing homes with high requirements, CaPlast offers a facade membrane of building material class B according to EN 13501-1 for fire protection. Naturally we provide interested system providers with insight into the entire test documentation, including the conditions for the SBI test.

The flame retardant facade membrane is suitable for curtain, rear-ventilated facades, natural stone facades, wooden facades, ceramic facades, sheet metal facades, large and small-format facade cladding with an open joint content of the facade of a maximum of 40% and a clear joint width of a maximum of 50 mm.

### The properties of the facade membranes CaWrap UV 200 FR – building material class B:

- Flame retardant
- Highly permeable
- Permanently UV-resistant
- Oil and surfactant resistant
- Ideal for expressive facades with black shadow gaps







## Recycling instead of downcycling

In the circular economy, products and materials are used again and again, recycled and recycled to avoid waste as much as possible. In this complex of topics, the change from fossil fuels starting products on bio-based plastics and natural products are becoming increasingly important. Technologically, it is a real challenge – and for us an economical and ecological necessity, which we can do with all determination to pursue. Read here about what we do in terms of sustainable product development and production.

### Shredded PET bottles become permeable facade membranes

In recent years, PET has become one of THE symbols in the climate debate. Only as an urgent reminder against the pollution of the oceans, today as a motor for the circular economy. PET bottles are the packaging with the highest recycling rate. The prejudice persists that recycling only comes for inferior products. Far from it! Our permanently UV-stable, flame retardant which is the latest generation of facade membranes is just one example of the fact that PET bottles have been used in their 2nd life as high-quality polyester fleece and shows they can be the basis for high-quality, technical textiles. From our point of view, it enables upcycling with a second useful life of more than 30 years.

### Withdrawal at the end of the product life cycle

In many markets, we are actively working to create a circular economy ourselves. For example, in the case of special floor coverings manufactured by us. Together with our customers, we collect the products at the end of their life cycle and refurbish them for reuse in the same high-quality products. Production waste is also integrated into our internal recycling cycles. This processing of the recycling for use in optically high-quality products is even more challenging than the actual material separation. Here, our laboratories work across companies on formulations in order to precisely achieve desired properties in terms of appearance, color and functionality. We are already using this method, able to recycle recycled residues from production into our high-quality products.

### Circular economy across the entire supply chain

The more pure a product is, the easier it is to recycle. For several years now, we have been offering high-quality solutions that ensure both 100% recyclability while also using already recycled materials. The best example is our 100% recyclable CaLiner reinforced, TPO-based tarpaulin for greenhouses, agricultural buildings, large tents, mobile stadiums, ship tarpaulins, pool coverings, bulk packaging and much more. For now, we are transferring this objective to various biopolymers. The composite results in products that are completely degradable at the end of their life cycle or will be compostable.

