

BELTS AND SHEETS FOR **CRUMB RUBBER MATS**

RELEASE SOLUTIONS
FOR **COMPRESSION MOULDING**

Partnerships that inspire.
Materials that perform.



versiv

RELEASE SOLUTIONS FOR COMPRESSION MOULDING

From playgrounds to sports fields, to outside the home or workplace, **crumb rubber** from recycled tyres is used in novel, innovative ways.

Weather-proof and durable, crumb rubber mats are an increasingly popular choice as exterior high-wear mats.

High manufacturing volumes require continuous manufacturing processes and flexibility in handling chemical additives with a mix of rubber and TPU.

Versiv non-stick products are used as processing aids, developed to withstand the high temperatures and pressures associated with press-forming activities while conveying the product and protecting the machinery.

Clean release means uninterrupted and consistent production with zero unplanned downtime – and your product, with or without the carpet top, is delivered flawlessly and to schedule.

Manufacturing crumb rubber matting is a challenging process that starts with the metering of a recycled crumb rubber and thermoplastic polyurethane mix.

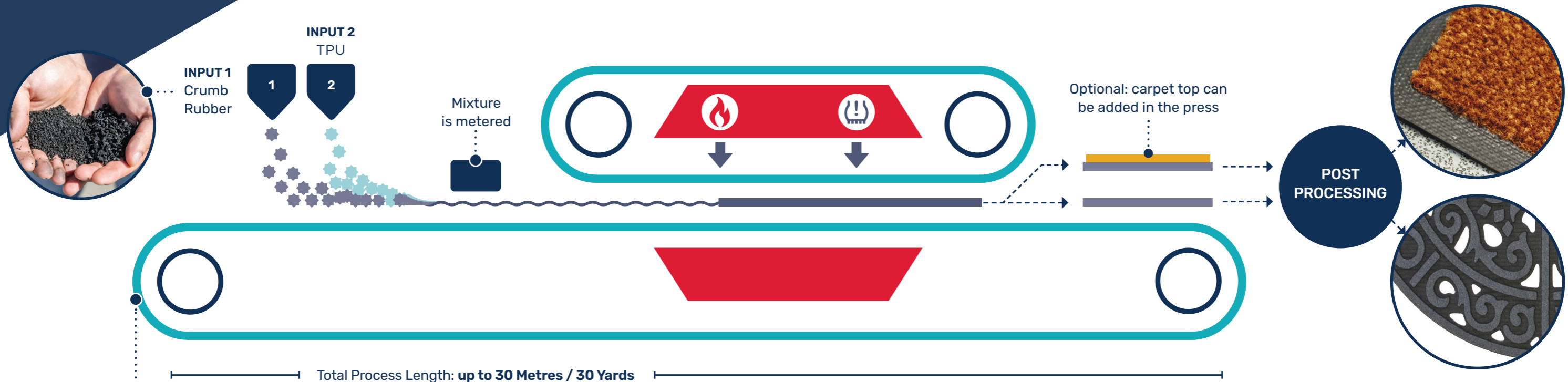
Versiv belts convey the mixture through the oven, acting as a release surface for all the processing stages while also transporting this heavy load. The non-stick and smooth surface guarantees that neither raw crumb rubber, TPU, nor the molten metered mix can attach to it.

As the metered mixture is carried into the heated hydraulic press, it will be subjected to temperatures of up to 200°C / 400°F as it is indexed under pressure. Thanks to their heat transfer properties and mechanical stability, our PTFE-coated belts and press liners aid the application of even pressure and temperature while their strength and dimensional stability prevent ridging, puckering and creasing.

This results in the production of a consistently excellent mat. The clean release also continues at the end of the cycle when the mats are released and ready for post-processing. No sticking means no defects and less material waste, ensuring reliable production and increased productivity.

Our Versiv PTFE release solutions are developed to last for several thousand cycles. Belts are durable and have superior low-friction qualities, reducing wear-and-tear on machinery to improve lifespan while reducing energy operating costs.

Installation is easy, quick and has significant advantages over other alternatives. There is no requirement for time-consuming surface preparation or application of manual spray coating, and customers who use Versiv belts report steady production with fewer unplanned stoppages associated with cleaning, sticking and contamination.



**VERSIV PTFE
RELEASE SOLUTION**

HEATING ZONE
 • TEMPERATURE: UP TO 200°C / 400°F
 • PRESSURE: UP TO 5 BAR / 70 PSI
 The crumb mixture is indexed beneath a heated hydraulic press

FEATURES AND BENEFITS

- Flexible and thermally weldable
- Non-stick surface
- Mechanically stable under pressure
- Thermally stable up to 260°C / 400°F
- Resistant to molten thermoplastics
- Controlled textured options
- Excellent heat transfer
- Design options for all types of machines
- Guidable edges

OUTCOMES

- Optimal release
- Higher quality finishes
- Consistent production processes
- Improved productivity
- Improved cost effectiveness
- Less material waste
- Defect-free product
- No cross contamination

CUSTOMER INSIGHTS

We listen to our customers and work in partnership with them. Customer feedback has indicated the number one advantage of Versiv Release Solutions is the consistency of performance over long periods of time.

Versiv Release Solutions are fluoropolymer-based composites reinforced with a woven fabric, usually glass or aramid. The extra smooth and highly consolidated fluoropolymer surface means that hot oils, molten polymers, or chemicals cannot attach or anchor to the surface. This property leads to longer-lasting release performance.

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Versiv is a recognised expert in high-performance, technology-driven, fluoropolymer-based materials and customised solutions. With over 40 years' experience, our films, fabrics, tapes and multimaterial composites are highly regarded in various B2B industries, with renowned companies among our clients.

Our specialty offering meets the diverse needs of customers seeking high-performance materials, that take on demanding tasks, in providing everything from safe and protective barriers, easy-release surfaces, dielectric insulation and friction control.

We adapt to make even more possible. Our collaborative, co-partnership approach inspires the success of our customers and the evolution of our capabilities, enabling us to deliver top-notch, off-the-shelf products and co-developed solutions.

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WHAT CAN BE MADE USING VERSIV PRODUCTS?

- Exterior door mats
- High wear mats
- Welcome mats

Also used in manufacturing of:

- Luxury vinyl tile
- Padded/cushion backed flooring
- Walk-off mats



**VERSIV PRODUCTS
OF CHOICE:**

CF4430 & CF7330

Standard heavy belting for basic requirements

CF4430 X & CF3460

Premium belting for superior release and extended durability

CF7330 AS

Heavy belting product for processes with anti-static requirements

