

POWDER BINDING

FOR AUTOMOTIVE AND DEFENSE

Powder Binder (PB) on Multiaxial fabrics is a process in which powder is applied to the entire or to specific tapes widths of a **SAERTEX®** fabric.

Benefits of Multiaxial fabrics with Powder Binder:

- ✓ **Production of dimensionally stable preform**
Improves the characteristics of the respective fabric to obtain preforms which are as dimensionally stable as possible.
- ✓ **Defined and reproducible application quantities**
The added value process of powder binding ensures precisely reproducible product properties in large quantities.
- ✓ **No wash-out**
With reactive binders there is no wash out (e.g. RTM Process), which means improved quality of the finished product.
- ✓ **Additional fiber bonding**
There is less distortion and fiber loss during handling. This improves quality and saves time and costs.
- ✓ **2nd shaping possible**
With non-reactive binders, a second shaping is still possible without negatively influencing the structural abilities of the product

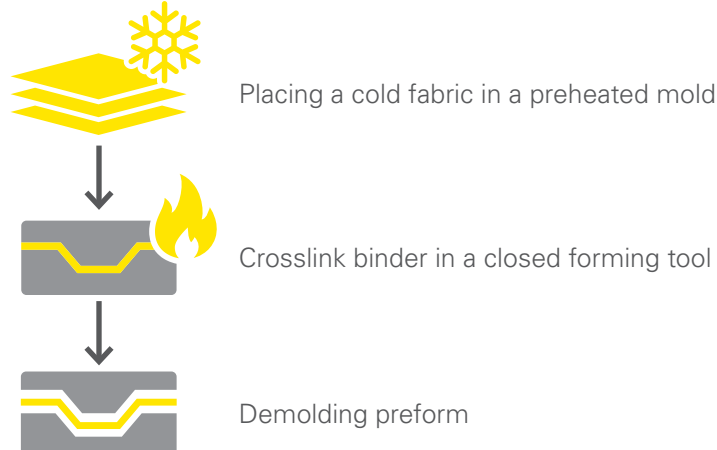
TYPICAL POWDER BINDING PROCESS

Non-reactive Preform Binder



Key feature: second shaping possible

Reactive Preform Binder



Key feature: no washout (e.g. RTM process)

TYPICAL APPLICATIONS



Automotive engineering

Production of preforms for structural components (RTM)



Wind energy

Fixed reinforcements for rotor blades



Aerospace

Preforms with stable geometry for complex laminate structure



Sports equipment

Complex components with defined fiber orientations

TECHNICAL DATA

Powder weight

0.18 - 1.5 oz/yd²

Binder systems

Epoxy and Polyurethane compatible

Fabric types

E-Glass, Carbon, Basalt Multiaxial Fabrics

Width of fabric with PB

Tape width up to 100 in

Powder application

PB on full width of fabric, PB on part of fabric in stripes



Product availability and specifications may vary by region. Please contact us for details.

Visit our website for more information.

REINFORCING YOUR IDEAS