



SAERTEX USA POWDER BINDER CAPABILITIES 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:

- 1. Production of dimensionally stable preforms: Improves the characteristics of the respective fabric to obtain preforms which are as dimensionally stable as possible.
- 2. No wash-out: With reactive binders there is no wash out (E.g. RTM-Process), which means improved quality of the finished product.
- **3. 2nd shaping possible:** With non-reactive binders, a second shaping is still possible without negatively influencing the structural abilities of the product.
- 4. Defined and reproducible application quantities: The added value process of powder binding ensures precisely reproducible product properties in large quantities.
- 5. Additional fiber bonding: There is less distortion and fiber loss during handling. This improves quality and saves time and costs.

TYPICAL POWDER BINDING PROCESSES

NON-REACTIVE PREFORM BINDER

Placing a preheated fabric with binder in a cold mold.

- 1. Freeze hot binder in a closed forming tool (approx. 3-5 min.)
- 2. Demolding preform

Key feature: 2nd shaping possible

REACTIVE PREFORM BINDER

Placing a cold fabric in a preheated mold.

- 1. Crosslink binder in a closed forming tool
- 2. Demolding preform

Key feature: no washout (e.g. RTM-Process)

TYPICAL BINDERS AT SAERTEX USA

EP and PU compatible



TECHNICAL FEATURES	
Powder weight	6 – 50g/m² / 0.18 - 1.5oz/yd²
Binder systems	Epoxy and Polyurethane compatible
Fabric types	E-Glass, Carbon, Basalt Multiaxial Fabrics
Width of fabric with PB	Tape width and up to 2540mm/100"
Powder application	PB on full width of fabric, PB on part of fabric in stripes

For questions or material needs contact info@saertex.com or call (704)-464-5998