



UltraBond, your key to 100% recyclable flooring

UltraBond is Beaulieu's patented polyolefin fibre technology that eliminates the need for latex or other chemical binders in your nonwovens. UltraBond allows you to manufacture 100% polypropylene (PP) and therefore 100% recyclable needlepunched carpets, without compromising on performance and quality.

The green way to bond

Thanks to UltraBond, producing 100% recyclable carpets has never been this easy and cost-efficient. UltraBond is the only technology that reduces the environmental impact of your carpet products, while not making any concession in terms of pilling resistance, abrasion resistance, or UV resistance.

Event carpets are usually only used once, before being disposed of. With UltraBond however, carpet materials can be recycled and reused in other industries, for example for the production of plastics. The impact of this reduced waste generation in the event industry and other sectors cannot be understated.

Applications

- Trade and event carpets
- Contract and residential carpets

UltraBond
The green way to bond



What you save when using UltraBond:

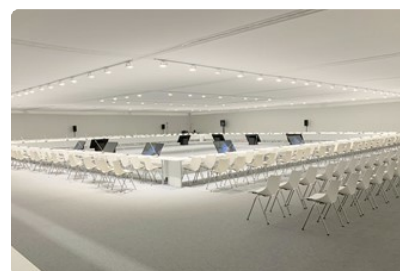
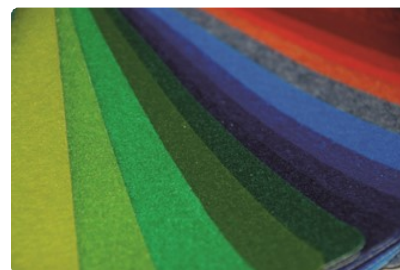
These are the sustainability benefits by looking at the **lifecycle analysis (LCA)** of an **exhibition carpet**, one of the most important applications for needlepunched carpets.

- **93% energy reduction**, compared to latex bonding solutions
- A potential **annual water saving of over 20 million litres** for 100 million m² of carpet
- A **CO₂ reduction of 35%** over the entire production process

SPECIFICATIONS	REFERENCE SYSTEM	ULTRABOND SYSTEM
TOTAL WEIGHT (G/M ²)	300	260
POLYPROPYLENE WEIGHT (G/M ²)	240	260
BONDING TYPE	20 wt% SBR Latex	20 wt%
ENERGY	0%	up to -93%
MAINTENANCE COST	0%	-40%
CONSOLIDATION EQUIPMENT	Hot air Furnace (110°C)	Hot air Furnace (>140°C)

Better for planet and profit

UltraBond is not only more environmentally-friendly, it also reduces your production and energy costs. Processing UltraBond requires no water and happens through thermal bonding, a 100% dry process. This process allows you to significantly reduce your CO₂ footprint.





Fibres

Specifications: UltraBond PP fibres for flooring

	ULTRABOND
TITRE (DTEX)	3.3 - 17
CUT LENGTH (MM)	40 – 50 – 60
CROSS SECTION SHAPE	Round
MELTING TEMPERATURE (°C)	PP (PHT-free): 165 °C
ADDITIVES	Softness Improvers, Opacifiers, Whiteness improvers
OUTDOOR UV RESISTANCE (HRS) ISO 105:B04	Up to 6.500
FR PERFORMANCE	Up to BFL-s1 – level possible
ACTIVATION TEMPERATURE (°C)	>140