



ENDUTEX^{UK}

Low-Wick Yarn Technology

The advantages of pre-treated yarn for long-lasting moisture protection in the marquee industry

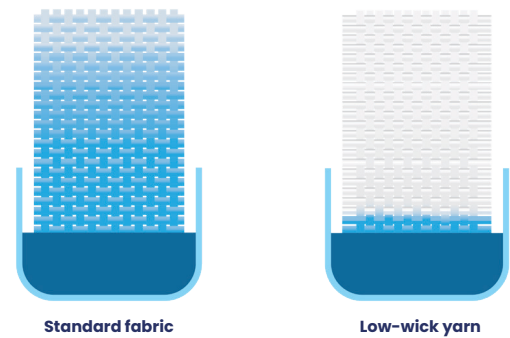
Moisture ingress is one of the most common causes of premature wear in marquee covers. It leads to staining and mould growth within the yarn, as well as structural weakening, this is especially prevalent at vulnerable points like cut edges and seams. To combat this, the solution is simple, a low-wick yarn construction.

Unlike conventional fabrics, Artec 651 from Endutex, is built from high-tenacity polyester yarns that are treated before weaving. This treatment creates a hydrophobic barrier around each filament, dramatically reducing the fabric's ability to absorb and transmit moisture, even around cut edges and seams.

How the Low-Wick Yarn Works:

- **Pre-treatment of the base yarn:** Before weaving, each polyester filament is coated with a water-repellent primer. This prevents capillary action – the process by which water travels along fibres.
- **Encapsulation:** After the low-wick yarn has been tightly woven in to the base cloth, a PVC paste is evenly applied to seal the weave and form a durable residue barrier.
- **The final finishing process:** A double-sided acrylic lacquer is applied to both sides to give a smooth premium finish, increase longevity and stain resistance.
- **Long-term durability:** Unlike surface-only treatments, Artec 651's low-wick properties remain effective even after repeated bending, folding, and washing.
- **Edge protection:** Moisture is blocked even at cut edges, where untreated fabrics are most vulnerable.

This illustration demonstrates the difference in liquid penetrating and tracking up a sample of conventional fabric v's a low-wick fabric.



Standard fabric
Moisture continues to track up untreated fabric

Low-wick yarn
Moisture ingress is significantly reduced.

The illustration shows test results after 7 days of exposure to dyed water.

Benefits of Low-Wick Yarn:

- Significantly reduces mould and fungal growth especially in the internal areas of a membrane structure which is essential for outdoor structures.
- Reduces staining and helps keep fabric colour stable, ensuring covers remain looking clean and professional.
- Extends fabric lifespan and durability, lowering replacement costs and improving return on investment.
- Ideal for high-frequency use, such as hire fleets and event venues.
- Maintains performance and product stability after cleaning, unlike temporary surface treatments that degrade over time.

Artec 651's low-wick yarn construction isn't just a technical feature, it's a practical advantage for anyone who needs reliable, long-lasting protection from the elements. Whether you're manufacturing marquees or managing a fleet of event structures, this fabric delivers consistent performance, season after season.

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