



Gütermann

# Outdoor



# OUTDOOR SEAMS withstand all weathers

Sun, rain, snow, dirt and wind - outdoor textiles are under enormous due to the ever-changing weather. As such, they need to meet high requirements and have outstanding colour fastness and durability. The same applies to the sewing threads used. The seam must be able to withstand constant weather changes for years to come and still remain visually appealing.



### **Robust sewing threads for outdoor textiles**

Conventional sewing threads are susceptible to damage and are therefore not explicitly designed for outdoor applications. The extreme stress causes them to lose their properties over time. This applies both to the colour and to technical features such as tear resistance.

The use of traditional sewing threads would not only limit the appearance and service life of the product, but may also pose an increased safety risk depending on the area of application. In addition to sports aircraft, this also applies to shading systems and other outdoor textiles. Special sewing threads designed for outdoor use are therefore essential.

A&E Gütermann has developed robust and durable sewing threads especially for this purpose. They have a long service life even under enormous stress from wind and weather.

For sun systems, the sewing threads must be particularly resistant to high UV radiation. Protection against fading must be guaranteed so that the products look the part for a long period of time.

Sewing threads in maritime applications are particularly exposed to salt water. To help ensure longevity, the seam must be resistant to mould. High tear resistance is also essential to withstand the high wind forces on the sail.

Outdoor sewing threads from A&E Gütermann are also ideal for use in upholstered furniture, tents and tarpaulins of all kinds.



# RELIABLE SEAMS in all wind and weather



To ensure that the products fulfil the exacting demands of outdoor applications, they are subjected to special simulation tests. They undergo extensive and long-term tests for UV radiation and seawater exposure.

The results of the outdoor sewing threads of A&E Gütermann products show a significantly lower colour deviation compared to the original colour shade than comparable sewing threads. They impress with their long service life and have a low loss of relative tear resistance – even after prolonged extreme stress.

Due to their special construction, the sewing threads have optimal sewing properties, making them suitable for light and even heavy and rigid materials.

The selection of the right sewing thread depends on the area of application, the wide range of base materials and any additional equipment.



**Solbond 40 | 30 | 20 | 10**  
**Sunstop® 40 | 30 | 20 | 15**

This ternally bonded polyester continuous filament is suitable for heavy textiles. Our specially developed twisted multifilaments Solbond and Sunstop® are ideal for creating difficult seams even at high sewing speeds. This means that the multi-directional sewing of zig-zag seams or seam looks is no problem, even with challenging materials.



**Calora UV 40 | 30 | 20 | 15**

We recommend Calora UV for traditional seams on lighter textiles, such as thin covers and tarpaulins. This polyester continuous filament with a special finish and silky appearance offers ideal stretching properties and optimal processing characteristics.



**WeatherMAX® 20**

WeatherMAX® is also a bonded polyester continuous filament, making it equally suitable for sewing heavy textiles.

In addition to good tear resistance and durability, this sewing thread impresses with its particularly high colour fastness and light fastness. This is achieved by its unique spin-jet dyeing.



**PTFE 30**

The PTFE sewing thread is suitable for products that are particularly exposed to extreme weather factors and where safety plays an enormous role, such as sports aircraft.

Our PTFE tape yarn retains its excellent original tear resistance for years to come. Thanks to its dirt-repellent effect, this sewing thread is particularly durable and tear-resistant.

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