

TX30 has been developed to meet the mechanical and aesthetical longevity requirements of the most demanding projects. In addition to the proprietary Précontraint technology benefits, the Précontraint TX30 material combines an ultra resistant 30 YEAR coating formula and a **CROSSLINK PVDF top coat**.

Dimensional stability / Low maintenance

The Serge Ferrari exclusive **Précontraint technology** provides unique dimensional stability compared to conventionally coated composites. It avoids re-tensioning and sagging.

- The polyester micro-cables are tensioned in both directions during the coating process resulting in flatter micro-cables and lower elongation and creep in both directions.

Elongation (EN 15997) : <1% / <1% (warp/weft direction)

Approx. 3 times lower elongation than Non Precontraint composites.



Natural light for architecture

Hold this section up to a light source to gauge the translucency of 3UHFRQWUDLQW

The 30 YEAR coating formula provides outstanding mechanical longevity

The mechanical longevity is directly linked to the quality and thickness of the coating which protects the yarns from the UV. The 3UHFRQWUDLQW TX30 longevity is served by:

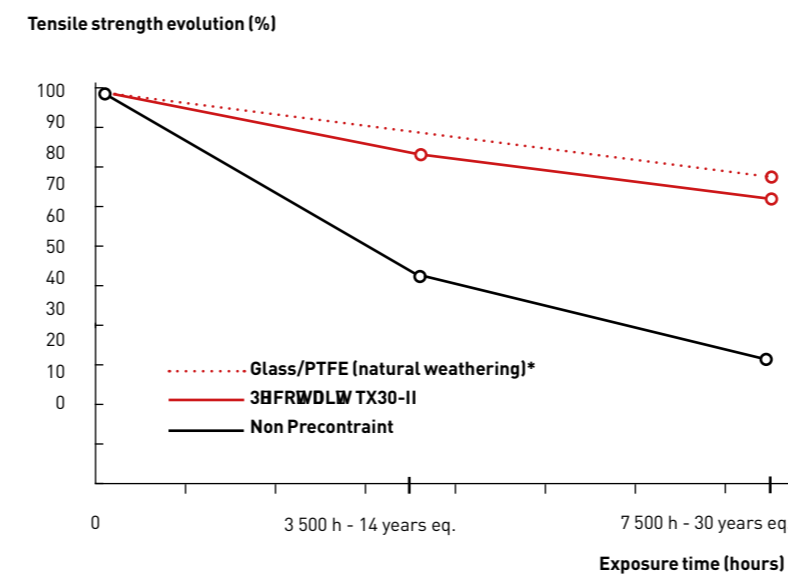
- A **30 YEAR coating formula** that is highly resistant to the erosion generated by weather aggressions (UV, rain...),
- A thicker coating protection at the top of the flat micro-cables resulting from the Serge Ferrari **Précontraint technology**.

30 YEAR coating formula to stand the test of time

Product reference	Non Precontraint	Precontraint70
Before weathering	<p>130 micron protection</p> <p>> Less protection of the polyester micro-cables against UV</p>	<p>230 micron protection</p> <p>> Greater protection of the polyester micro-cables against UV</p>
After weathering 7500 h - 30 Year Florida Eq	<p>1mm</p> <p>Erosion of the coating - Polyester micro-cables are naked and exposed to UV degradation.</p> <p>> Drop of mechanical properties (see below)</p>	<p>Limited erosion - Polyester micro-cables are still well protected against UV by the coating.</p> <p>> Better mechanical longevity (see below)</p>

Mechanical strength evolution

The mechanical strength has been measured at different intervals during the accelerated weathering. 3UHFRQWUDLQW maintains a better mechanical resistance after 30 years thanks to a better protection of the polyester micro-cables.



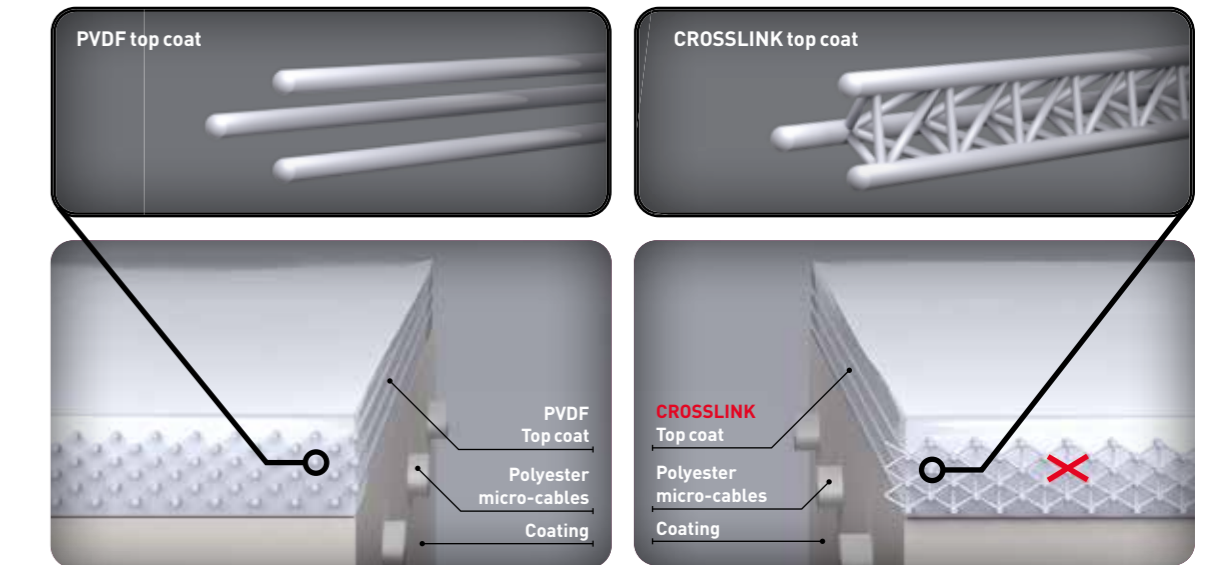
*Data from industry technical specification

TX30 CROSSLINK TOP COAT for durable aesthetics

The CROSSLINK top coat formula generates irreversible links between molecular chains. This three-dimensional network provides long term benefits:

- durable aspect due to higher resistance to photo oxidation and micro-cracks,
- smoother surface to minimise ingrained dirt,
- easier and more efficient cleaning of the even surface.

TX30 CROSSLINK Top coat



Extreme surface resistance

Product	Standard	High end & durable composites	
Top coat	Non Precontraint Weldable PVDF	3UHFRQWUDLQW TX30 CROSSLINK Weldable after abrasion	Glass / PTFE Weldable with additional tape
Friction coefficient*	0.59	0.27	0.23
Accelerated weathering 4.500 H - 18 year Florida Eq.			
Accelerated weathering 7.500 H - 30 year Florida Eq.			
CLOSE UP Yarn protection 7.500 H - 30 year Florida Eq			
	Lots of micro cracks and exposed yarns - Irreversible degradation	No micro cracks, aesthetics is preserved, easy cleaning	No micro cracks, aesthetics is preserved, easy cleaning

*a lower friction coefficient minimises the accumulation of dirt and pollution resulting in self cleaning properties.