

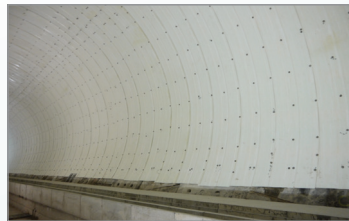
## PAJARES TUNNEL PROJECT MANUFACTURED USING CRESTAPOL® 1212

### Company Profile: TECNIPUL

#### LOCATION : BARCELONA, SPAIN

For over 15 years, TECNIPUL has specialised in the making of GRP (Glass Reinforced Plastic) profiles, specifically using the pultrusion manufacturing process.

TECNIPUL has maintained a steady growth over the years and today, TECNIPUL has 15 production lines dedicated to producing pultruded profiles, totalling a combined surface area of 5,000m<sup>2</sup>.



### Crystic® Crestapol Resin

#### Crestapol® 1212

The Pajares corrugated tunnel plates (810cm wide) are made using pultrusion, with Crestapol® 1212 and 170pph ATH.

Crestapol® 1212 was selected because it achieves Bs2d0 (standard EN 13501), but also due to its inherent low water uptake. Crestapol® 1212's low water uptake is essential for this particular project, as TECNIPUL had previously experienced significant water permeation with their tunnels. Using Crestapol® 1212 has enabled the effective recovery of the water which previously leaked into the tunnels.



### Benefits/ Advantages

- ✓ Represents the highest grade of fire resistant systems for the construction industry
- ✓ Meets the highest fire standards globally, achieving M1/ F0, HL2, S4/ SR2/ ST2
- ✓ Low water uptake due to the urethane acrylate technology
- ✓ Easy to use in the pultrusion process as a highly filled resin
- ✓ Extremely low viscosity

### Customer Quote

“ Ever since we started working on the TECNIPUL project, we have worked very closely with Scott Bader. We have developed a fantastic partnership with Scott Bader for many years now and we are always confident that Scott Bader can provide us with the required technical support, expertise, advice and of course products which offer the necessary mechanical and FST properties.

Overall, we consider Scott Bader to be an excellent partner for high tech composites projects.

Mr. Lluís Muxí, General Manager, TECNIPUL

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BUILDING & CONSTRUCTION

INDUSTRIAL

MARINE

AUTOMOTIVE

WIND ENERGY