

## 7.0 TYPES OF ROCK ANCHORS ACCORDING TO THE GUIDELINE

### 7.1 TPR-00 temporary ground anchors



TPR 00 temporary ground anchor

**Temporary TPR-00 ground anchors** are produced in compliance with the **Ministerial Decree as of 14.01.2008, Decree no. 12391 22.12.2011** and with the **European and Italian Standards**.

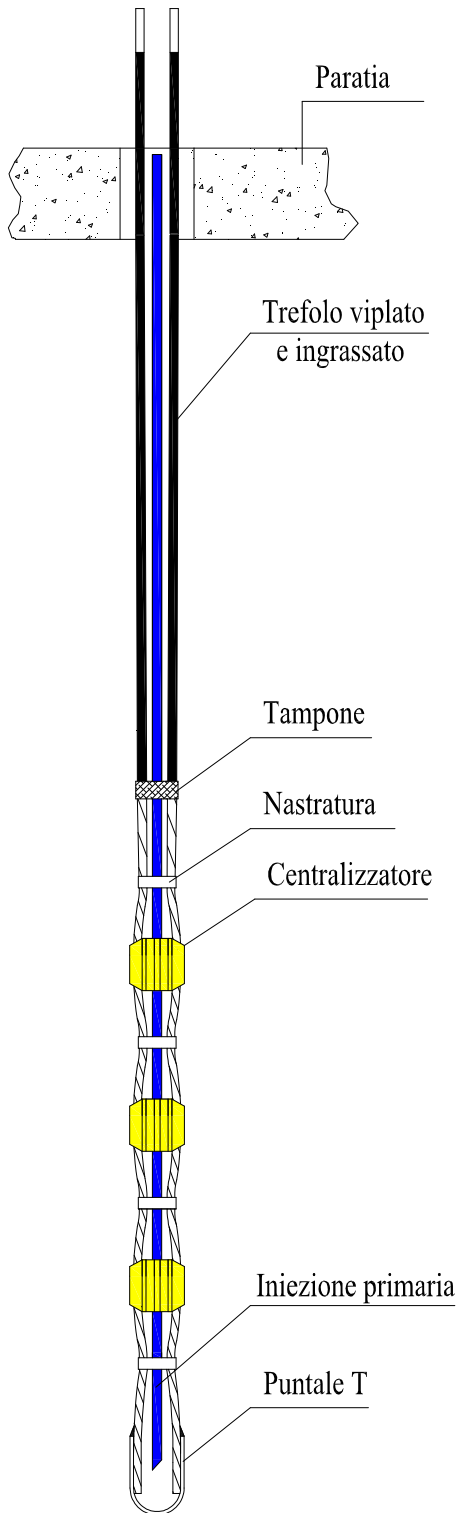
The **TPR-00** ground anchor is usually used in the construction of bulkheads and diaphragms, where the type of ground needs temporary anchors to be used.

The **TPR-00** ground anchors are defined temporary as their expected design life is under two years.

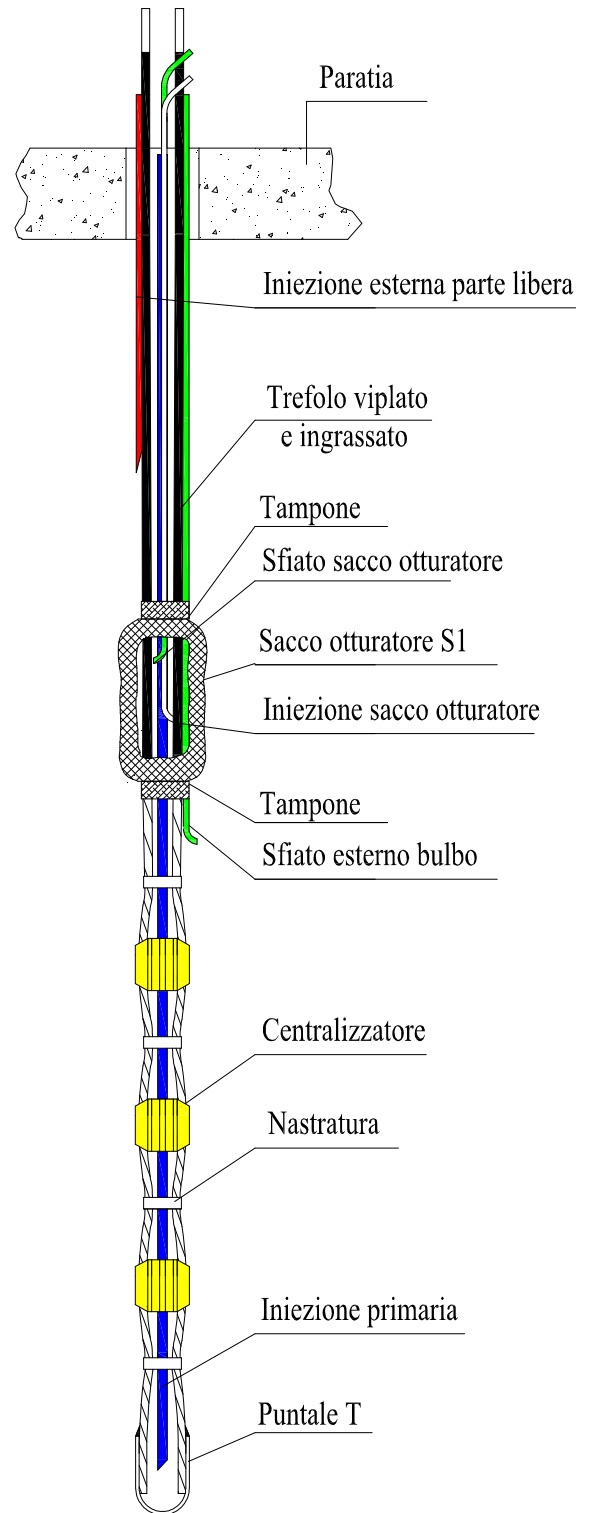


#### **The anchor is made as follows:**

- In the active part, the strands are separated by special spacers which guarantee the tendon to maintain a sinusoidal shape. By means of suitable strapping and/or taping, the sinusoidal shape of the tendon increases the adherence with the foundation cement mix. Grouting takes place via 16x20 mm polyethylene/polypropylene tubes that can guarantee a max. grouting pressure of 10 bar at 40°C and a burst pressure of 15 bar at 40°C.
- The end part of the anchor is provided with a steel ogive to ease its insertion into the drilling hole.
- The separation of the free length from the active part is achieved by way of a buffer of sealing material, which allows both parts to be perfectly hermetic.
- The free length is protected by greasing and sheathing each single strand by means of 16x19.5 mm tubes.
- Centralizers inserted into the foundation with a 1.5 m pitch.



*TPR 00A*



*TPR 00A (S1 packer)*

The *TPR-00A* temporary anchor is provided with a **16x20 mm** grouting tube