Maccaferri's motto is 'Engineering a Better Solution'. We don't merely supply products but work in partnership with our clients, offering technical expertise to deliver versatile, cost effective and environmentally sound solutions. We aim to build mutually beneficial relationships through the quality of our service and solutions.

**Maccaferri Applications**

- **RenoMac Plus**
- **CubiMac**
- **RenoWall**
- **RenoMattress**
- **UW-MS**
- **Concrete Flooring, Precast & Other Uses**
- **Industrial Manufacturing**
- **Fencing & Wire**
- **Aquaculture Nets/Cages**
- **Maccaferri River Analysis**

**Discover our prefilled underwater solutions and related MACRA software to design environmentally sound hydraulic solutions.**

**THE NEED FOR EASY AND ACCURATE INSTALLATION IN UNDERWATER CONDITIONS**

Mattresses and gabions have numerous uses when it comes to river structures and coastal protection. Gabions are key solutions for both longitudinal and grade control structures in watercourses. Reno Mattresses can protect bridge abutments and piers from scouring or they can work as toe scour protection in harbour basins, during the docking and undocking manoeuvring.

Since these solutions often need underwater installation, their implementation could become quite challenging. The idea to simplify the laying of mattresses and gabions while maintaining their excellent performances led to the development of these new solutions.

RenoMac Plus and CubiMac were designed to provide the highest efficiency in various resource-intensive conditions.
A rapidly changing world needs technological development and innovative solutions. The need for hydraulic works and erosion control applications is increasing, especially due to extreme weather events. Underwater installation of mattresses and gabions in harbours and watercourses can be challenging, especially during filling operations. Our aim was to design environmental-friendly solutions that could save time during the installation and considerably reduce material waste.

PREFILLED SOLUTIONS FOR UNDERWATER ENGINEERING APPLICATIONS

- PoliMac coated prefilled solutions are designed to face the most aggressive environmental conditions with great durability. Also, there is no need to replace stones like in rip-rap solutions.
- RenoMac Plus and CubiMac create a natural habitat for living species.
- An outstanding durability extends the life-cycle and makes the solution more sustainable.

WEY CHOOSE A PREFILLED SOLUTION OVER A TRADITIONAL ONE?

- OVER 70% STONE SAVINGS VS RIP-RAP
- LESS MATERIAL, MORE ACCURACY
- MORE SPACE AVAILABLE

TOTAL COST OF OWNERSHIP

- DESIGN OPTIMIZATION
- EASY & SAFE TO INSTALL
- EXTENDED LIFESPAN

Why choose a prefilled solution over a traditional one?

- Prefilled solutions offer environmental benefits, biodiversity, and durability.
- They require less material, making the installation process more accurate and more sustainable.
- RenoMac Plus and CubiMac simplify the installation process, making it easier and more accurate.

Less polluting emissions from mining and quarrying. RenoMac Plus and CubiMac create a natural habitat for living species. An outstanding durability extends the life-cycle and makes the solution more sustainable.