

Posidonia Finishing Solutions

Electropolishing with Micro Peening

Electropolishing enhances **corrosion resistance**, **cleanability**, and **surface smoothness**, extending product life. It removes **20-30 microns** of material, eliminating **nickel and iron**, leaving a **chromium-rich surface** for better durability.



Hot Dip Galvanizing

Forms a **protective barrier**, extending lifespan with **minimal maintenance**. Meets **EN 1461 standards**, ensuring a **minimum zinc layer of 75 microns**.

Process:

1. **Surface preparation**
2. **Galvanizing**
3. **Inspection** (sampling, visual checks, thickness measurement)

Additional Treatments:

- **Zinc coating with sealant:** Enhanced electrolytic zinc protection (UNI ISO 4520, ASTM B633, DIN 50979).
- **Thermal zinc spray (Metallization):** Removes rust and creates a hard protective layer.



Posidonia Painting

Fully compliant **paint booth**, enabling precise **painting specifications** with certified coating thickness.

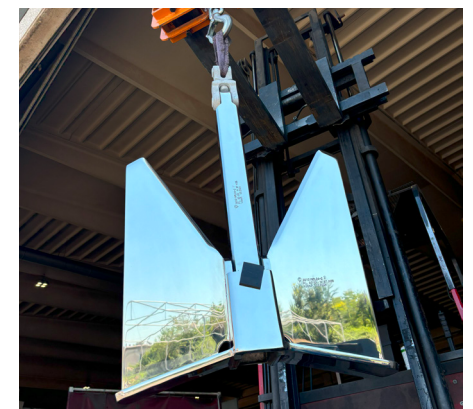


Mirror Polishing

A **manual high-precision** process performed in **Posidonia's workshop**. Using **low-speed abrasive amalgams**, imperfections are gradually removed, resulting in a **smooth, highly reflective surface**.

Advantages:

- **Bright, reflective, and corrosion-resistant finish.**
- **Tailored Ra value** to meet technical requirements.



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Passivation

Forms a **protective layer**, preventing **corrosion** by removing **less noble particles** like **iron**.

Process:

1. Washing & degreasing.
2. Chemical treatment to form a **dense protective oxide layer**.

Advantages:

- Enhanced corrosion resistance & extended lifespan.
- Uniform protective barrier & controlled process.



Super Yacht Execution

A premium finishing treatment for **luxury yachts**, enhancing **aesthetic appeal** and **perceived value**.

Process:

1. Surface Preparation
2. Edge Grinding
3. Hot-Dip Galvanizing (HDG) per BS EN ISO 1461
4. Zinc Coating for uniform steel surface color



Polishing400

A **matte, cost-effective finish**, offering an alternative to **mirror polishing**.

Process:

- Cleaning, drying, and polishing.
- Protective coating to prevent tarnishing & corrosion.

Ensures **flawless appearance**, ideal for yacht launches.



Posidonia: Excellence in Marine Finishing