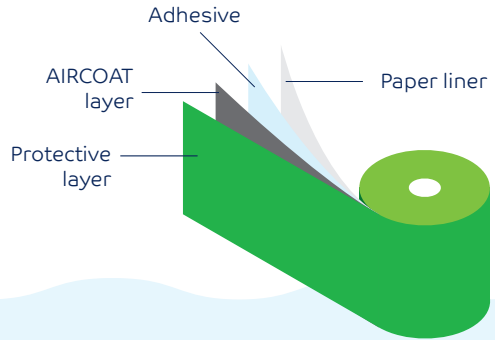


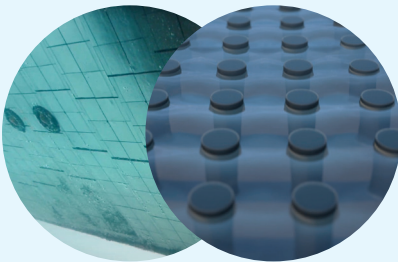


## BIOINSPIRED TECHNOLOGY: AIR LAYER LAMINATE COMPOSITION



### 1. PROTECTION LAYER

- Avoids any distortion of the structure during the shipping, manipulation and application of the laminate.
- To be removed once the laminate is applied on the hull.



### 2. PILLARS STRUCTURE

- Structure made of pillars establishing and retaining the air.
- No additional air or energy to be supplied.
- Multiple sections of pillars give more flexibility and limit the expansion of eventual air leak.
- Easy maintenance of the hull coating.



### 3. ADHESIVE LAYER

- High tack and high bound adhesive for long term marine application.
- Standard self-adhesive film application method after removal of the paper liner.
- Manual application using a squeegee.

1. Development of the surface/foil implementing the Salvinia effect, that is able to trap a layer of air when submerged in water.



WATER  
AIR



HYDROPHILIC  
HYDROPHOBIC



WATER  
AIR  
FOIL  
SURFACE

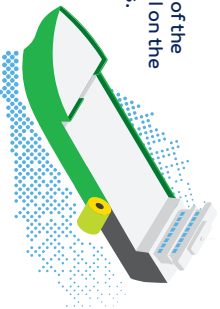


ADHESIVE

FOIL

2. Apply the AIRCOAT material onto a self-adhesive foil.

4. Application of the AIRCOAT foil on the hull of ships.



3. Large-scale production of the AIRCOAT foil.



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