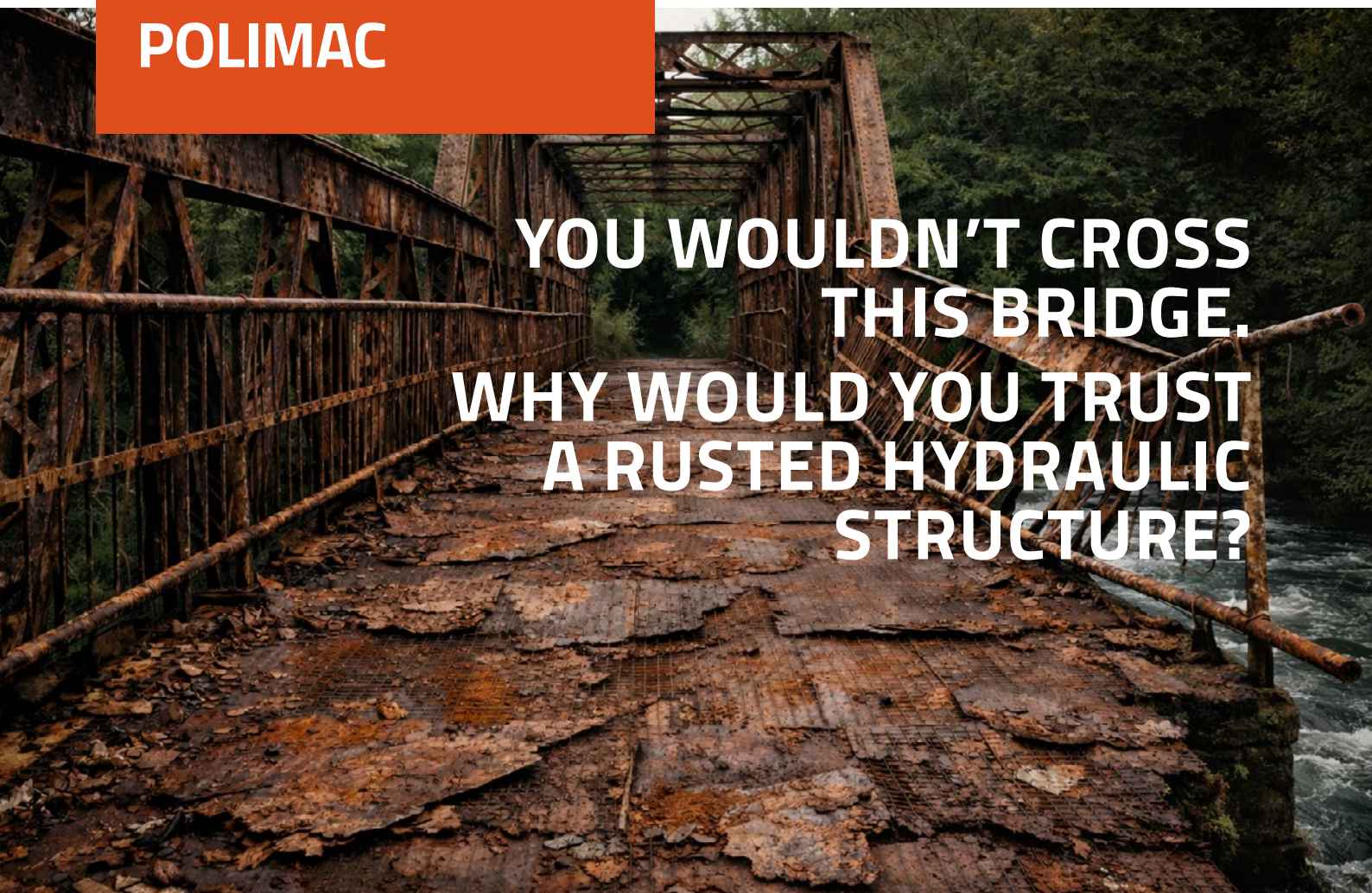


## POLIMAC



YOU WOULDN'T CROSS  
THIS BRIDGE.  
WHY WOULD YOU TRUST  
A RUSTED HYDRAULIC  
STRUCTURE?

## CORROSION STARTS WHERE COATING PROTECTION FAILS

Flood events push hydraulic structures far beyond their design limits. Powerful currents, sediment transport and continuous water action accelerate abrasion and corrosion. In these conditions, **durability** becomes the **foundation of safety and long-term performance**. Gabions and Reno mattresses need protection against intense abrasion and aggressive corrosion and that protection has a name: **PoliMac**.

## TESTED UNDER REAL HYDRAULIC CONDITIONS

We adopted a **two-step testing approach** that replicates the real conditions experienced by hydraulic structures. Only **PoliMac** and **Bio PoliMac** maintain their performance after this combined testing sequence.



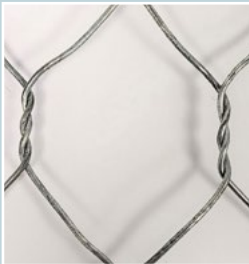



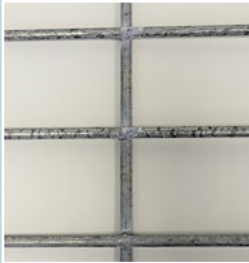
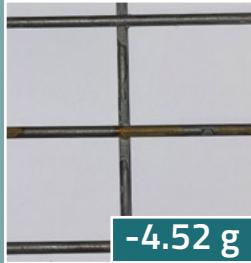
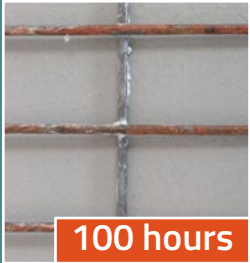

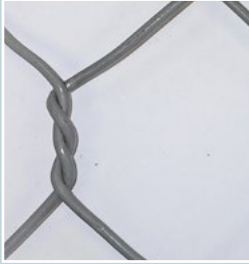
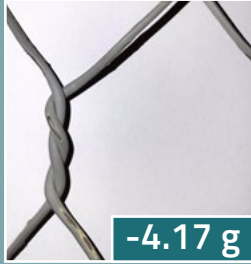


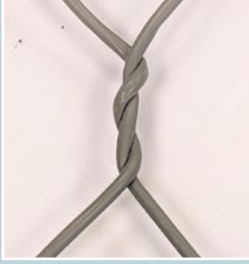



MACCAFERRI POLIMAC®

STEP **1** WET ABRASION RESISTANCE (ISO 22182)

STEP **2** CORROSION RESISTANCE TO SALT SPRAY (ISO 9227)

## WHY METALLIC COATINGS FAIL IN AQUATIC ENVIRONMENTS

Although all our coatings are certified for 2,000 hours of salt spray resistance, wet abrasion removes part of the coating and exposes the mesh to corrosion. **The greater the coating loss**, the more vulnerable the mesh becomes, leading to **earlier failure in salt spray** testing and reduced durability in aquatic environments.

	BEFORE THE TEST	AFTER WET ABRASION	DURING SALT SPRAY	AFTER SALT SPRAY
<b>DT MESH METALLIC COATING</b>		 -4.32 g	 100 hours	 2,000 hours
<b>WELDED MESH METALLIC COATING</b>		 -4.52 g	 100 hours	 2,000 hours
<b>DT MESH PVC COATING</b>		 -4.17 g	 1,000 hours	 2,000 hours
<b>DT MESH POLIMAC COATING*</b>		 -0.42 g	 1,000 hours	 2,000 hours

\*The DT mesh with Bio PoliMac coating underwent the same tests as PoliMac, showing comparable performance: -0.48 g coating loss and >2,000 h salt spray resistance.

Maccaferri Ltd

T: +(44) 01865 770 555

E: info.uk@maccaferri.com

[www.maccaferri.com/uk](http://www.maccaferri.com/uk)

Republic of Ireland Maccaferri Partner - Geostrong

T: +(353) 01885 1662

E: Sales@geostrong.net

[www.geostrong.net](http://www.geostrong.net)