

# • NAUTILUS •

## *Anti-corrosion immersion*



*Power Coated Fixing*



# *friulsider*

## *power coated fixing*



## **1000 hours of resistance to corrosion**

**Nautilus** is the revolutionary anti-corrosion coating designed and tested exclusively by **Friulsider** laboratories. Researchers, taking advantage of the unique experience in the field of fixings, have devised

an innovative treatment that greatly increases the ability of metal to resist oxidation in aggressive environments such as marine or industrial areas. The appearance of red rust occurs in fact after more than

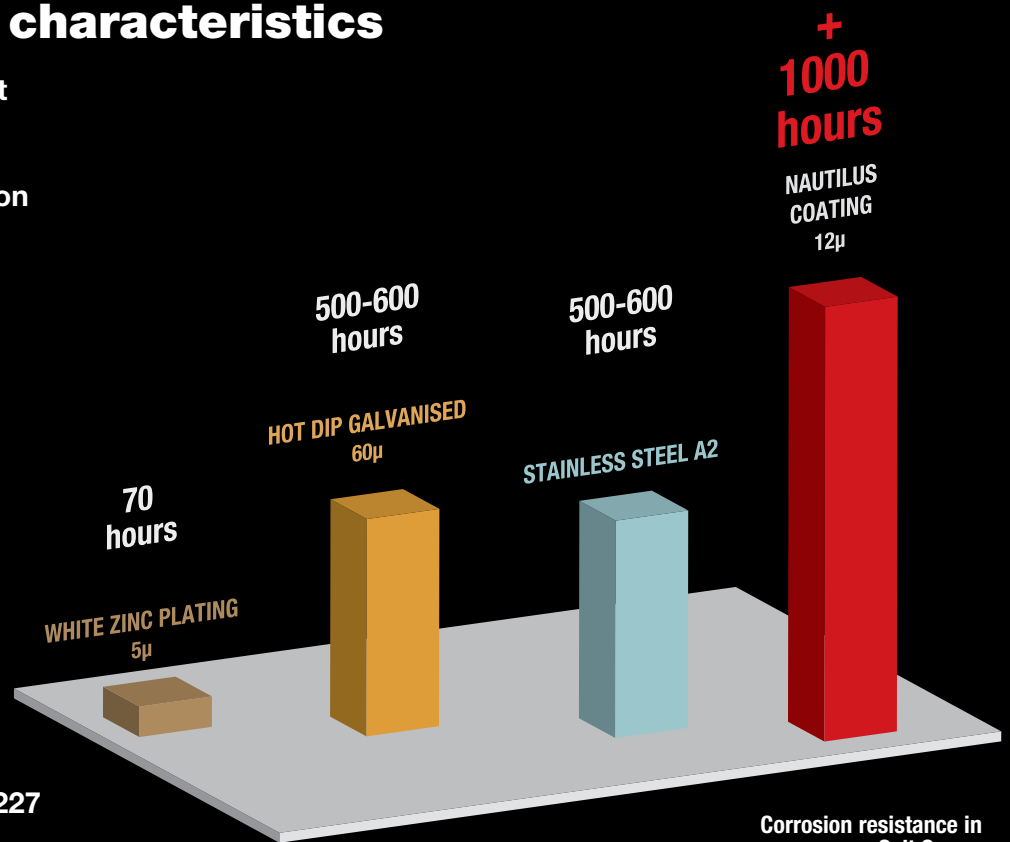
1000 hours, compared to 70 hours of a normal zinc plating. An outstanding achievement, which places **Friulsider** at the forefront of its field, improving the performance of its range.

## Nautilus coating characteristics

- ▶ Corrosion resistance in Salt Spray: 1000 hours (red rust appearance)
- ▶ Thin (12μ): no interference on the threads
- ▶ Environmentally friendly: RoHS compliant and Chromium VI free
- ▶ Resistant to high temperatures

## Nautilus coating regulations

- ▶ Salt Spray Test NSS according to UNI EN ISO 9227



Corrosion resistance in Salt Spray. Red rust appearance.

## Corrosivity categories according to ISO 9223

CORROSIVITY CATEGORIES According to ISO 9223			STEEL	STEEL	STAINLESS STEEL A2 (wr.1.4301 EN10088)	STAINLESS STEEL A4 (wr.1.4404 EN10088)
			White zinc plated 5μm ISO4042	NAUTILUS		
C5	very high	Industrial-Marine				☉
C4	high	Industrial-Marine				●
C3	medium	Industrial-Marine-Urban		☉	☉	●
C2	low	Urban		●	●	●
C1	very low	Rural	☉	●	●	●

- ☉ Partially suitable applications
- Suitable applications

C5-M = marine environment with very high salinity and very close to the sea <0.2 km;  
 C5-1 = industrial environments with high air pollution (sulfur dioxide-chloride-etc.);  
 C4 = industrial environment with high sulfur dioxide pollution, coastal areas with high salinity, distance from the sea 0,2-1 km;  
 C3 = urban or industrial environment with low sulfur dioxide pollution, coastal areas with moderate salinity, distance from the sea 1-3 km;  
 C2 = Urban environment contaminated mainly from densely populated areas with no significant industrial activity, distance from the sea > 3 km;  
 C1 = Rural non-contaminated environment, mainly natural areas, distance from the sea > 20 km;

**Environmental Assessment:** combinations of corrosivity categories according to ISO9223 - micro / localized specific environments - high temperatures - high UV radiation - galvanic corrosion due to contact with metals of different scales of nobility - direct or partial exposure to sea water including water spray - direction of the wind in the coastal or industrial area - presence of humidity / condensation > 80% - presence of corrosive vapours, (sulfides, chlorides, etc.) internal such as swimming pools / chemical plants or external such as proximity of industrial fumes discharges - rainfall frequency - underground structures - etc.

THE ENVIRONMENTAL ASSESSMENT MUST BE CARRIED OUT BY DESIGNERS AND/OR COMPETENT PERSONAL, THE INFLUENCE OF THE ABOVE FACTORS MUST BE CONSIDERED IN THE USE OF THE FIXINGS SHOWN IN THE TABLE, AND THEREFORE SUITABLE PROTECTIVE AND DESIGN-CONSTRUCTION FACTORS MUST BE IMPLEMENTED.

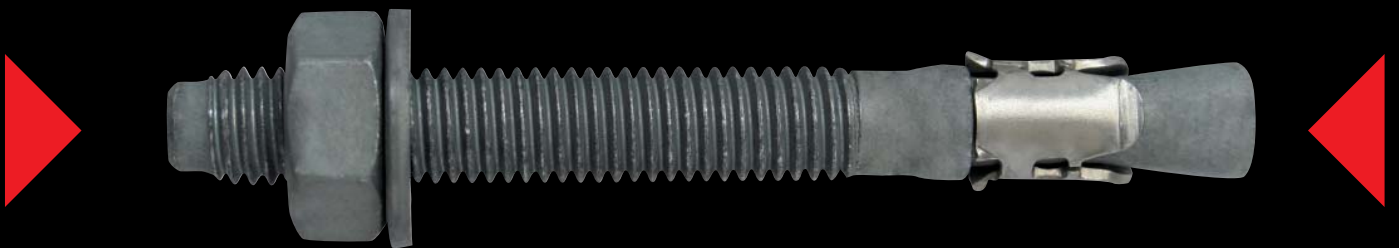
**FM-753<sup>®</sup> CRACK NAUTILUS**

**HEAVY DUTY THROUGH ANCHOR - OPTION 1: FOR CRACKED CONCRETE**



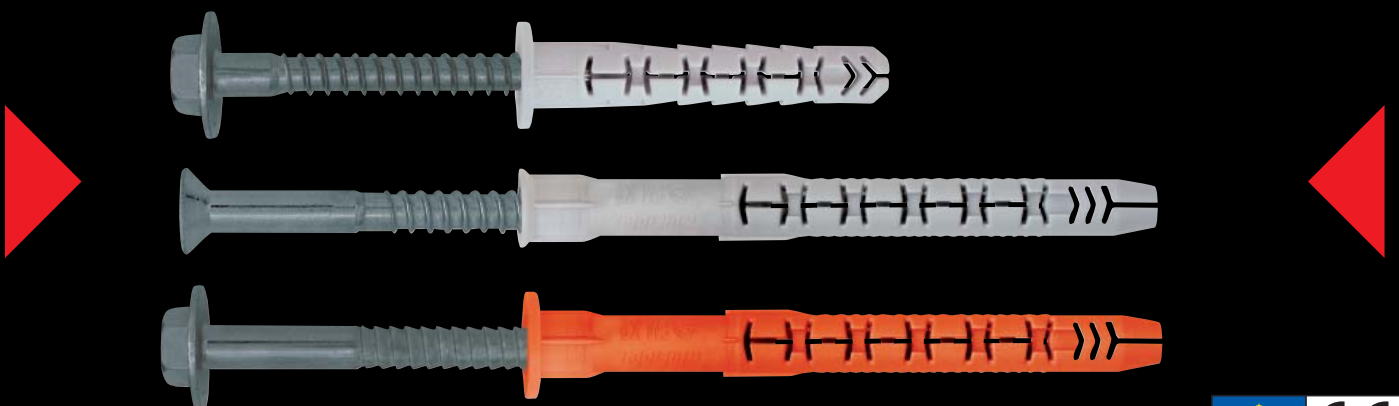
**FM-753<sup>®</sup> NAUTILUS**

**HEAVY DUTY THROUGH ANCHOR**



**FM-X5<sup>®</sup> NAUTILUS**

**MULTI-EXPANSION LONG PLUG**



***dedicated productions***



## ***Dedicated productions***

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Upon request, **Friulsider** will evaluate the application of the **Nautilus** coating on other dedicated productions.

For information on available product types, minimum quantities, technical specifications, delivery times and prices, please contact the **Friulsider** Sales Offices.

***friulsider***



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