Shanghai Tianyang Times Technology Co., Ltd.
Tianyang Honghu New Materials Research Institute

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30MPa superior adhesive strength & super salt corrosion resistant coating material (915-1)

Application scenarios and industry pain points

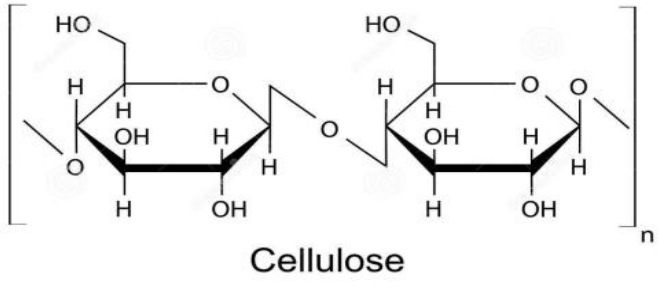
#Keywords in this paragraph# Marine anti-corrosion , oil drilling , chemical industry , fertilizer industry , high salt and high humidity conditions , insufficient durability , cracking and shedding during plastic processing,Frequent maintenance , high cost , green and environmentally friendly , new coating materials

In the marine , oil drilling, chemical, and fertilizer industry environments , equipment and pipelines are exposed to high-salt and high -humidity conditions for a long time. Traditional plating anti-corrosion technology or ordinary coatings have insufficient durability and are susceptible to corrosion, which leads to frequent maintenance and high-cost operation problems .
In particular, ordinary coatings crack or fall off during bending or plastic processing , which cannot meet the increasingly complex application scenarios . At the same time, as environmental regulations become more stringent, the market is in urgent need of new green and environmentally friendly coating materials.

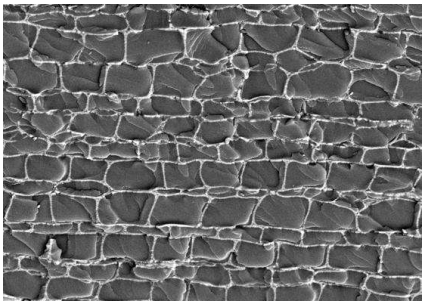
Product Introduction

#Keywords in this paragraph# Biofiber-based materials , non-metallic composite materials , dense microstructures , brick wall structures

915-1 is a non-metallic composite material based on biofiber- based materials.
Using medium-temperature and high-pressure technical processes, cellulose polymers can fully fill the gaps between mineral particles, forming a dense microstructure similar to a brick wall.
This structure gives it excellent corrosion resistance and mechanical properties that surpass many non-metallic composite materials .



Cellulose



Performance characteristics, key data and test reports

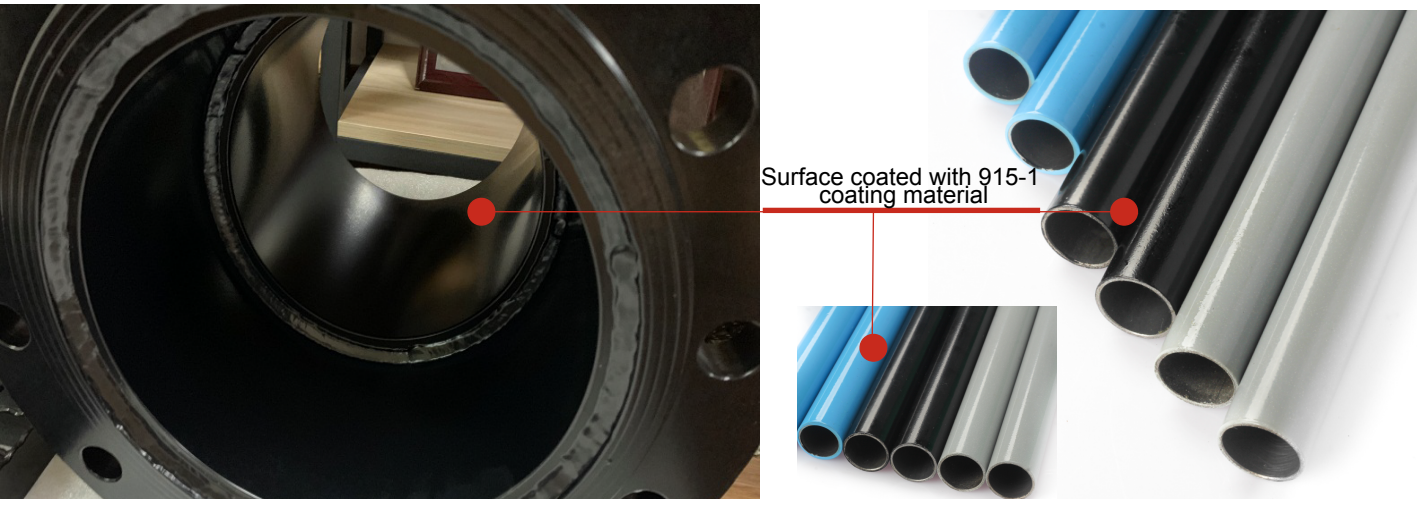
- ≥30 MPa ultra - high adhesion
- Salt spray test performance over 10,000 hours
- Outstanding performance in various saline environments
- No falling off or wrinkling during any plastic processing

Economic Benefits

- Replace the traditional galvanizing anti-corrosion process
- 915-1 is made from bio-fiber -based composite materials, which is completely green and environmentally friendly
- Metal workpiece can be twisted and bent arbitrarily, and plastic processing can be performed without cracks or creases on the coating.
- Increase the service life of equipment and reduce maintenance and repair frequency and downtime costs.

Anti-corrosion layer performance comparison table

Test Project	Characteristics of epoxy powder	915-1 coating material characteristics	Test methods
Salt spray resistant	1,000h anti-corrosion layer has no change	10,000h anti-corrosion layer has no change	GB/T 1771
Anti-bending	Resistant to 3° bending without	Resistant to 180° bending without	SY/T0442 Appendix E
Operating temperature	≤95℃	≤150℃	ISO 306
Pull-open method	≥10MPa	≥30MPa	GB/T 5210
Abrasion resistance (1000g/1000rcs-17 wheels)	≤20mg	≤15mg	GB/T 1768



Application performance

It is recommended that we make an appointment for an online video conference or offline face-to-face communication. We will bring you the latest, most complete and more detailed information.

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National-level specialized and innovative "little giant" enterprise
National high-tech enterprise
National key new product (special for high-speed rail)
National special equipment manufacturing license (pressure pipeline A2 grade)
Eight quality management and quality assurance systems

First Prize of Science and Technology Progress Award of China Corrosion Protection Society
Shanghai Academician Expert Workstation
Shanghai Craftsmen
Shanghai Quality Gold Award
PetroChina network supplier (No.: 1761144)
Sinopec E-Pac Credit Rating: A+

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