Corrosion Protection - Rilsan Coating

A high quality, high performance finish requires careful preparation and controlled environment.

Rilsan® powder coatings have been used in the water industry since 1967. It is a unique, high performance polyamide providing a high degree of corrosion protection for metal parts whilst being compliant with the most demanding drinking water regulations (WRAS, KIWA etc.).

Manufactured from a renewable raw material (castor oil), Rilsan® is an environmentally sound coating that does not release any volatile organic compounds and whose composition is free of any heavy metal based pigments, and of curing agents.

To ensure their fittings meet their designated design life Viking Johnson uses Rilsan® as their corrosion protection coating to the majority of product lines. Selected not only for the coatings excellent protection against corrosion, Rilsan® withstands high levels of deformation making it ideal for Viking Johnson products that flex during bolt up. In addition, the coating resists impact damage making ideal for rough handling on site during installation.

Shot Blasting:

Full shot blasting of all component parts provides an optimum clean surface by removing rust and roughening the surface that ensures complete coating adhesion.

Product Priming:

A dedicated booth ensures complete priming of components that prevents Oxides forming prior to Rilsan® coating resulting in absolute coverage and improved adhesion.

Gas Fired Oven:

Components are placed in gas fired ovens to raise the temperature of the metal in a controlled manner to defined temperatures that vary according to the geometry of item to support accurate coating applications.

Dipping in Fluidised Bed:

The components are then dipped into a tank of Rilsan® where air is forced from the bottom ensuring the powder flows freely in “fluidised bed” that exhibits the same properties as a “liquid” ensuring total contact round all surfaces. Agitating the hot metal component around in tank ensures no air pockets resulting in 100 % coverage to the metalwork that delivers the required coating thickness of typically 250microns.

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Protecting Parts During Handling & Storage

Rilsan® coatings possess remarkable physical and mechanical performance making it ideal for use on Viking Johnson products.

Impact Resistance

Can withstand rough handling on site when:

- Being lifted into the trench
- Unavoidable knocks during installation in congested trench locations

Wear Resistance

- In pumped sewage lines containing solids

Deformation & Cracking

- During bolt up, repair clamps will deform and take the shape of the pipe. The Rilsan® coated deforms as well but without cracking so maintaining corrosion protection

Being lifted into the trench

Congested trench locations

During bolt up repair clamps deform to take the shape of the pipe

Project Reference List – Rilsan Nylon

Year	Country	Project Name	Client / Contractor	Project Details
1967	Netherlands	Looksbroek – Initial Construction	Waterleidingmaatschappij Oost-Brabant N.V.'s-Hertogenbosch	Potable Water Production
1990	Germany	Bocholt	Afvalwater Zuiveringsinstallatie	Waste water treatment plant
1997	Netherlands	Looksbroek – Expansion	Waterleidingmaatschappij Oost-Brabant N.V.'s-Hertogenbosch	Potable Water Production
1997	Japan	Chatan Desalination Plan	Prefecture of Okinawa	Desalination Plant
2000	Netherlands	Blue Star Ferries cruise ship	Van der Giessen de Noord	Pumping of sea water for cooling of the engine
2007	Israel	SWRO Plant	Askelon Municipality	Seawater Revers Osmosis (SWRO) Plant
2007-2014	Netherlands	Pipe laying and support diving vessels for Petrobras	Subsea7/IHC Merwede	Seawater cooling system of the engine
2014-2015	Italy	Mega yacht	Marriottiyard	Seawater cooling system of the engine
2014-2015	Netherlands	Harderwijk	Vitens/ Rook pijpleidningbouw	Potable Water Production
Current	France	ITRON	APS-sicore	Water monitoring device
Current	Netherlands	Krohne	Krohne	Flowmeter

Preserving Water Quality

Rilsan® coatings meet the requirements of the various regulations regarding the suitability of materials in contact with drinking water. They have been granted official approval in many countries:

- France (circular DGS/VS4/N°99.217)
- United Kingdom (WRAS and DWI certifications)
- Germany (KTW and W270 certifications)
- Netherlands (ATA certification)
- United States (NSF61 listing)
- Japan (Ministry of Health)
- Australia (AS4020 certification)
- Russia (Ministry of Health)