

# Don't let water take hold of your pipes

ProRox® PS 960/970 mandrel wound pipe sections



PATENT  
PENDING

## Combat the risk of Corrosion Under Insulation

CUI is a major issue in the industry. It leads to higher maintenance costs and can cause pipe leaks or even ruptures. According to NACE\*, water-leachable salt, water retention, permeability and wettability all play a major role in mitigating the risk of CUI.

Our next generation ProRox mandrel wound stone wool pipe sections with WR-Tech™ (Water Repellency Technology) get to grips with CUI. They absorb less water, dry faster, are more durable and have a very low water-leachable salt content. Minimising the risk of corrosion under insulation. See for yourself at [rti.rockwool.com](http://rti.rockwool.com).

# What does NACE say?

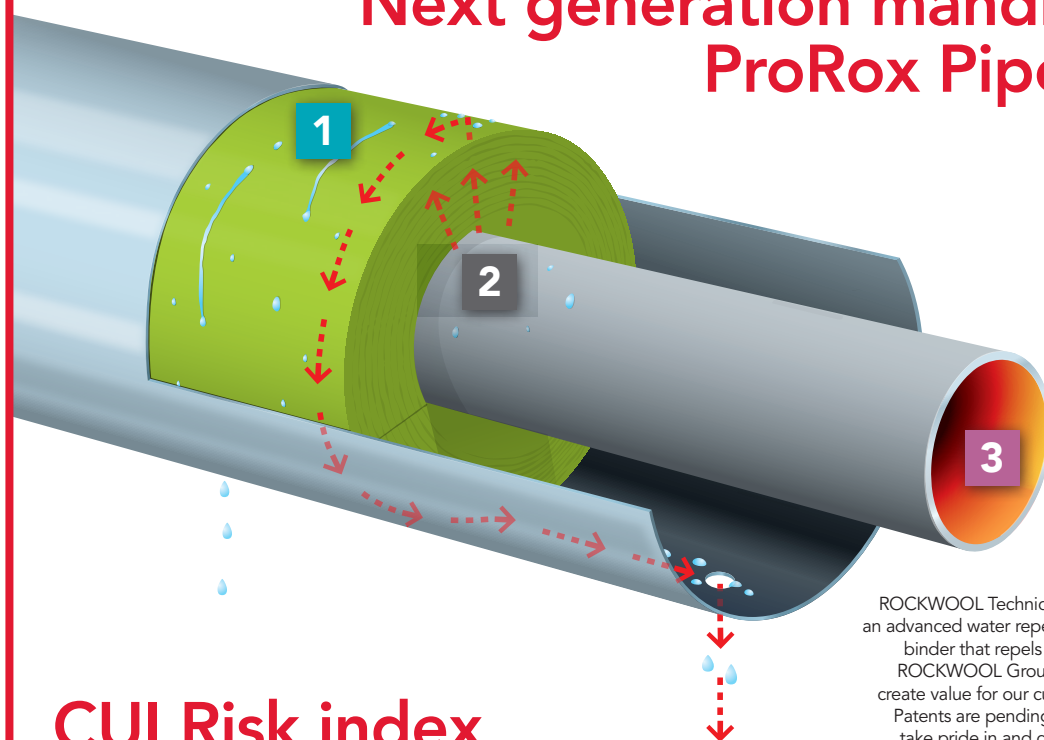
\* National Association of Corrosion Engineers - NACE SP0198-2010 (2.1.2)

CUI of carbon steel is possible under all types of insulation. The insulation type may only be a contributing factor. The insulation characteristics with the most influence on CUI are:

- Water retention, permeability and wettability of the insulation
- Water-leachable salt content in insulation, such as chloride, sulphate and acidic materials that may contribute to corrosion

“Because CUI is a product of wet metal exposure duration, the insulation system that holds the least amount of water and dries most quickly should result in the least amount of corrosion damage to equipment.\*”

## Next generation mandrel wound ProRox Pipe Sections



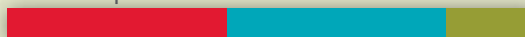
ROCKWOOL Technical Insulation has developed WR-Tech, an advanced water repellency technology based on a unique binder that repels water and has a low chloride content. ROCKWOOL Group recognises innovative solutions that create value for our customers and is keen to protect them. Patents are pending for the WR-Tech technology, and we take pride in and care of our patent portfolio worldwide.

## CUI Risk index

### BEST IN CLASS SOLUTION

TO MITIGATE THE RISK OF CORROSION UNDER INSULATION

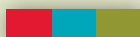
Standard product - Non EN-stone wool



ProRox PS 960/970



ProRox PS 960/970 - with WR-Tech



■ Water absorption ■ Dry-out time ■ Leachable chlorides

The above is a graphic visualization of aggregated CUI contributors, actual CUI performance depends on application and local conditions on site.

# ROCKWOOL ProRox® PS 960/970 with WR-Tech™



## Why is ProRox PS 960/970 the solution?

1

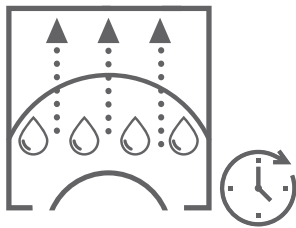


### LOWEST WATER ABSORPTION

### HIGHEST WATER REPELLENCY

5x lower absorption than best available standard EN 13472, minimizing water absorption and maximizing water flow away from insulation material.

2

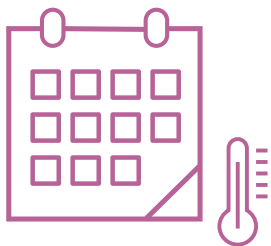


### QUICK RELEASE

### FASTEST WATER DISSIPATION

The vapor open structure ensures that water can evaporate freely if it might reach the pipe surface. The low water absorption ensures the fastest dry-out time.

3



### DURABLE PERFORMANCE UP TO 250°C

### NO REDUCTION OF REPELLENCY

Fully durable water repellency performance up to 250°C over the whole CUI range.



**<10PPM Cl**  
LOW LEACHABLE  
SUBSTANCES

Complies with EN 13468 & ASTM  
C795, the most strict standards



**COATING  
FRIENDLY**  
SILICONE OIL FREE

Complies with VW test 3.10.7, does not  
result in fish-eyes, usable in paint shops



**PRODUCT  
TOUGHNESS**  
FLEXIBLE & STRONG

No cracks when exposed to  
external impact

# Why choose ROCKWOOL stone wool?



ROCKWOOL stone wool products have been proven in service for over 80 years. They will give effective protection and ensure an optimal performance for the lifetime of the installation.

**Sustainable:** Independent assessments show that ROCKWOOL products are among the most sustainable in the world, leading to an unrivalled combination of environmental savings, energy reduction, sound insulation and fire safety.

**Positive carbon footprint:** The more you consume the less you pollute. Insulation is one of the few products that offer this luxury. In its lifetime ROCKWOOL insulation saves more than 20,000 times the CO<sub>2</sub> emitted for the production.

**Long lasting:** ROCKWOOL insulation is made by melting volcanic rock which is spun into fibres and bonded into slabs, pipe sections or wired mats. Relying on trapped air for its thermal properties, the use of natural / inorganic materials and our



unique production process ensures a long lifetime. ROCKWOOL stone wool will give effective protection and ensure an optimal performance for the lifetime of the insulation.

**Safe:** ROCKWOOL stone wool is one of the safest materials in the event of a fire; it is non-combustible and does not emit any toxic fumes. Stone wool is a safe material to work with as well as to use in our homes and buildings. This has been confirmed by the latest regulations and tests on product safety.

**Zero ozone depleting potential and zero global warming potential:** ROCKWOOL products are manufactured using a state of the art production process that does not use, and has never used, harmful gasses such as CFCs, HCFCs, HFCs, in fact any blowing agent that has ozone depleting potential or global warming potential. ROCKWOOL products simply use air.

**Effective:** The insulation for buildings and technical installations we have installed around the world in this one year will save nearly 4000 million tonnes of CO<sub>2</sub> in its lifetime. Investing in the insulation of hot pipes and processes can be extremely profitable, with annual returns on investment reaching 100%.

RW-TI/09.17/2.0k/Eng Int 420



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