Protect the systems that protect us

PipeShield® in wet sprinkler systems

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Today’s presentation

01 MIC Europe

02 Corrosion cases

03 System investigation and analysis

04 PipeShield in wet sprinkler systems

05 Track record and results



MIC Europe

20 years & 40 years

of corrosion and fire protection expertise

Founded in 2006 by J. Braes

Partner to installers throughout Europe

Corrosion research, removal and prevention

Field support, service and maintenance



Food factory

7 years (2024)

Installation age

Pipework replacement
costing millions







Storage warehouse

19-year-old installation (2026)

Leaks above stored food. Pipework is difficult to replace.





Stainless steel sprinkler tank

5 years (2025)

Leaks in the tank bottom







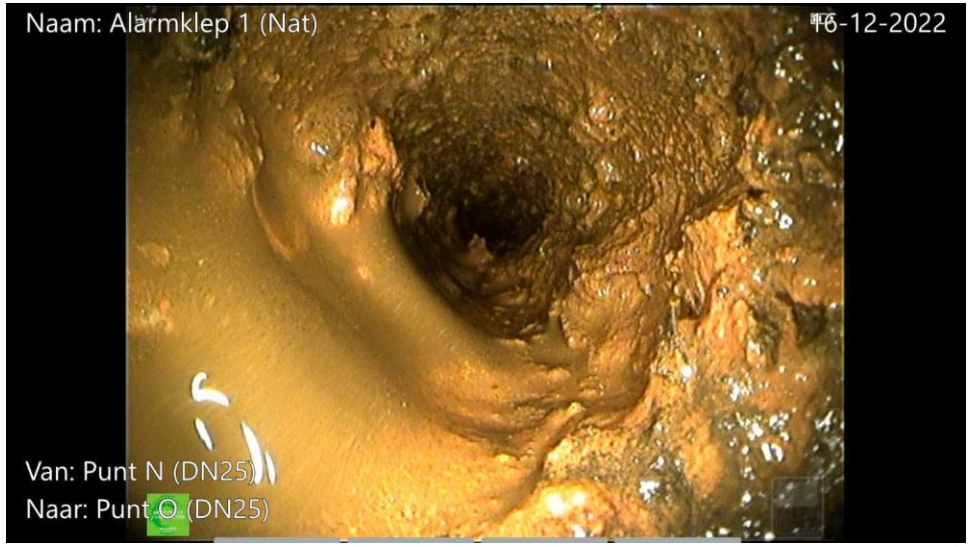
Shopping centre

20 years (2024)

PipeShield treatment helped retain the existing installation







Water analysis

Water quality, corrosion risk and evidence of ongoing corrosion

Tap water



Severe MIC reactions

Tank water



Severe MIC reactions

PipeShield sample



Stable

Camera inspection

Actual internal condition

Visual evidence alongside water analysis

Basis for replacement or preservation

Replace or preserve?



PipeShield® in wet sprinkler systems

PipeShield

Corrosion inhibition

How it works



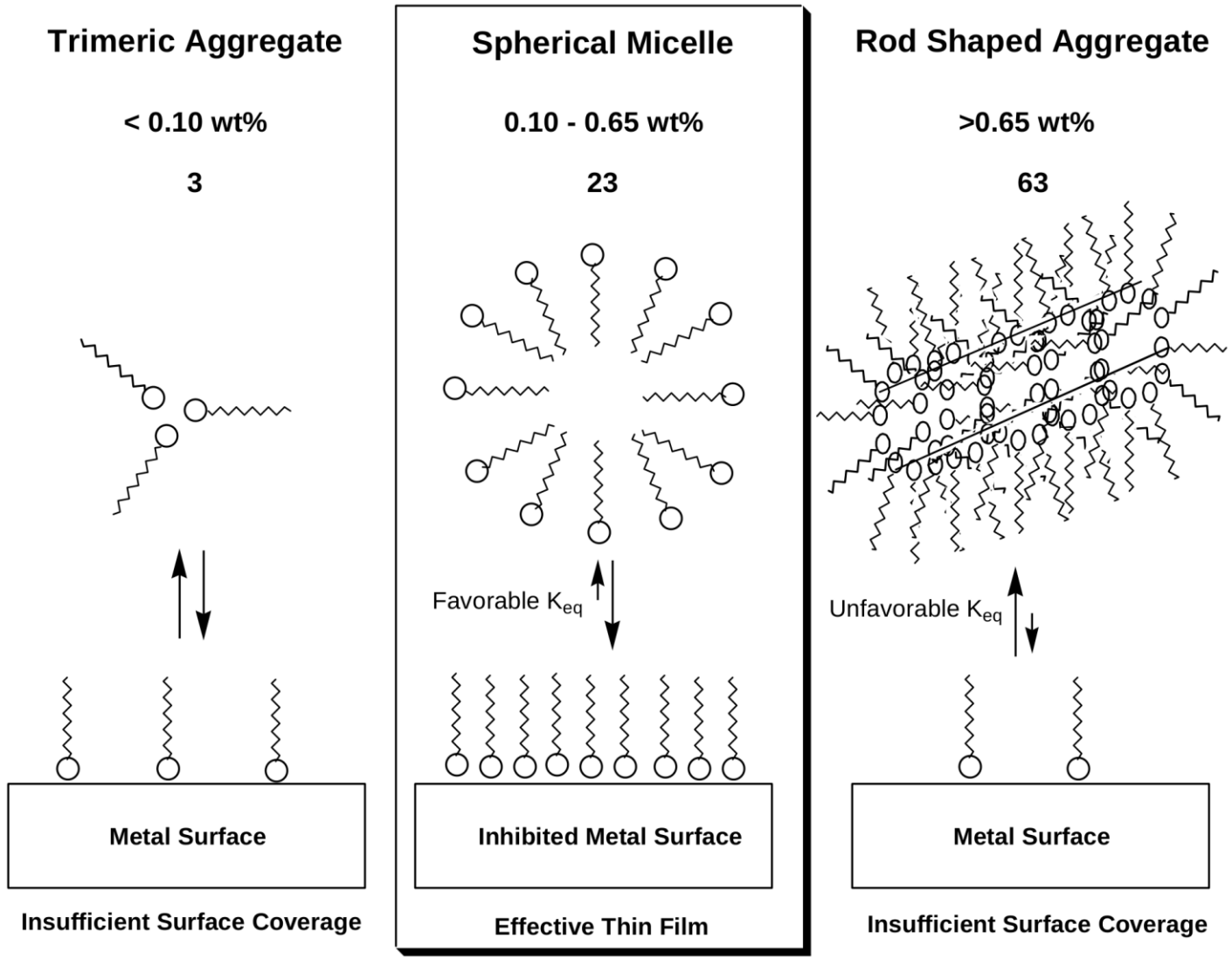
Concentration and protective film formation

Bulk concentration

Aggregation number

Solution structure

Thin-film formation

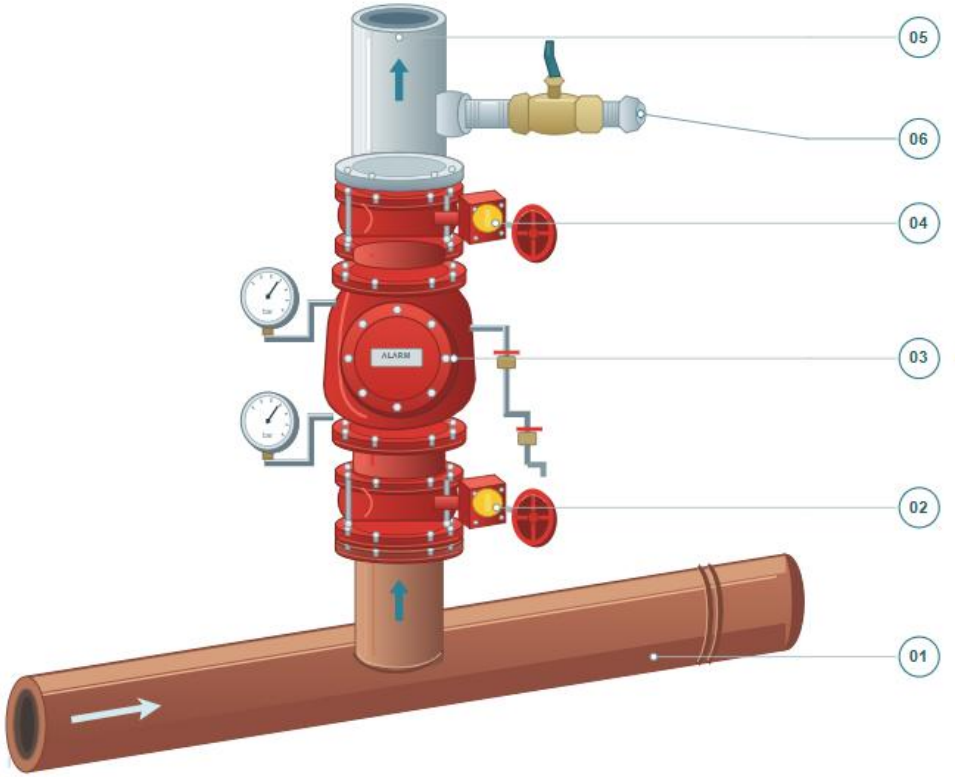


Application at the riser

PipeShield injection point

Connection above the alarm valve

2″ ball valve with plug
2″ weld socket and double nipple



Water supply via manifold

05 **Riser**

06 **PipeShield injection point**

04 Butterfly valve

03 Alarm valve

02 Butterfly valve

01 Manifold

PipeShield application on site

Dosing equipment and site connections



Hose connection



IBC and pump



Riser connection

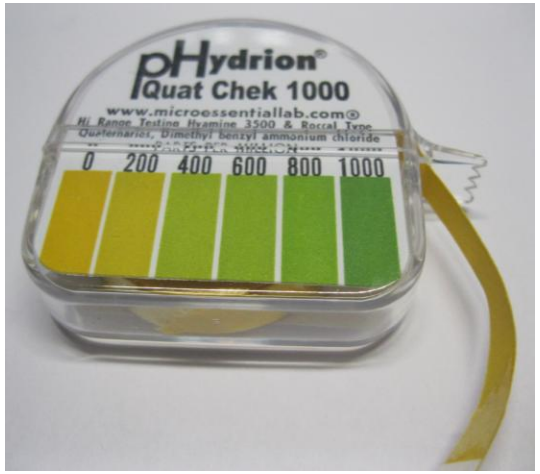


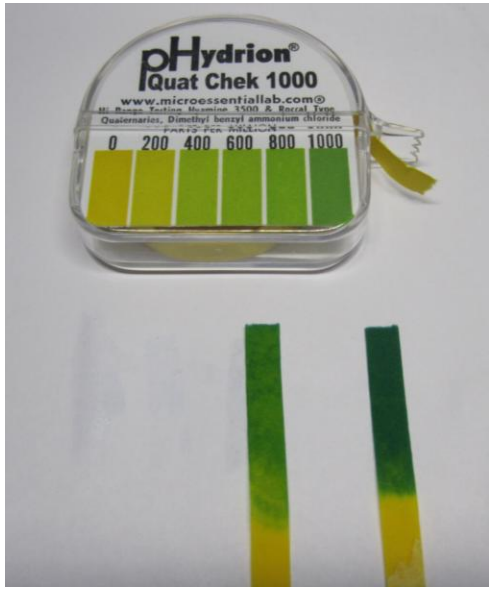
Injection point

Monitoring the PipeShield concentration

QUAT test strips

A visual check of
the product concentration







Track record

Long-term projects

Project	Experience
Intel/AMB Production & Logistics	10+ years
DSM Dyneema	10+ years
Akzo Organon	10+ years
Amsterdam metro network	10+ years
Nutricia	10+ years
Multiple hospitals (under NDA)	8+ years

Recent projects

Project	Year
A16 tunnel, Rotterdam	2025
Port of Antwerp fire station	2026
Ojah food production	2026
Shopping centre, Schijndel	2026

Cast iron in salt water

5% salt water with cast iron chips

Untreated control



PipeShield-treated



MC 1.0, 0.8% actives (0.1% PipeShield)

Galvanic corrosion test

Deionised water, 1010 steel and aluminium



DI water control No galvanic contact	DI water control Steel/aluminium contact	**0.1% PipeShield** **Steel/aluminium contact**

PipeShield MC 1.0 is effective against galvanic corrosion.

Carbon steel after three months

Test conditions

4″ carbon steel pipe
DIN 2458

Open top
Potable water



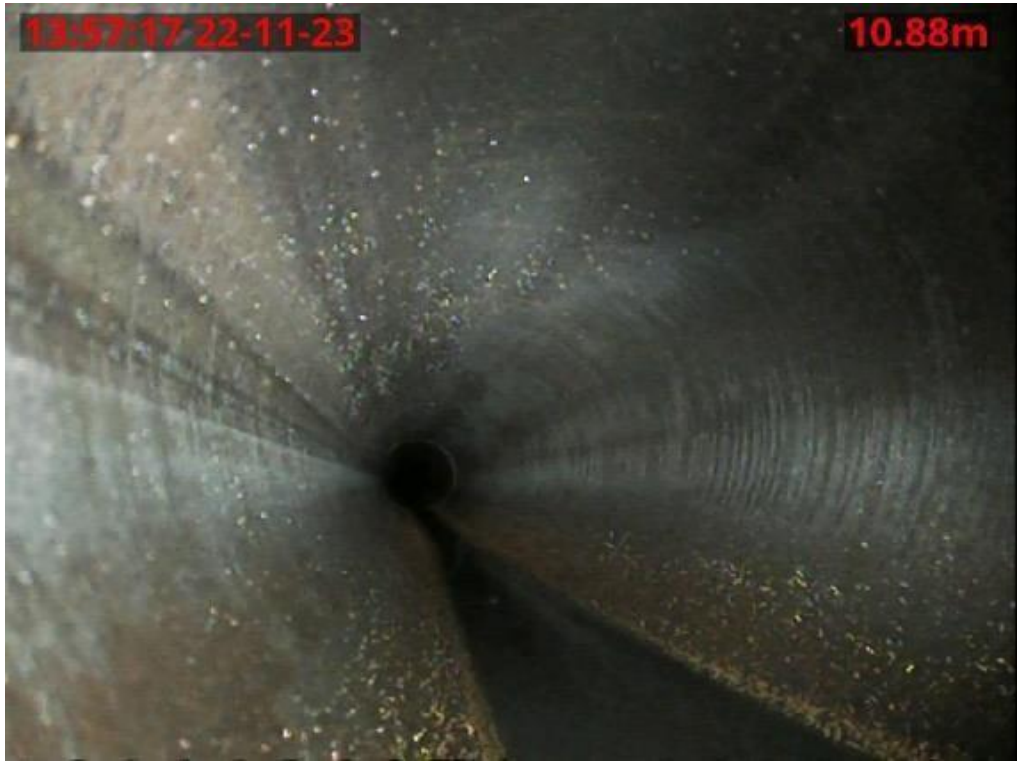
MC 1.0
0.8% actives
(0.1% PipeShield)

Untreated control

Internal condition in service

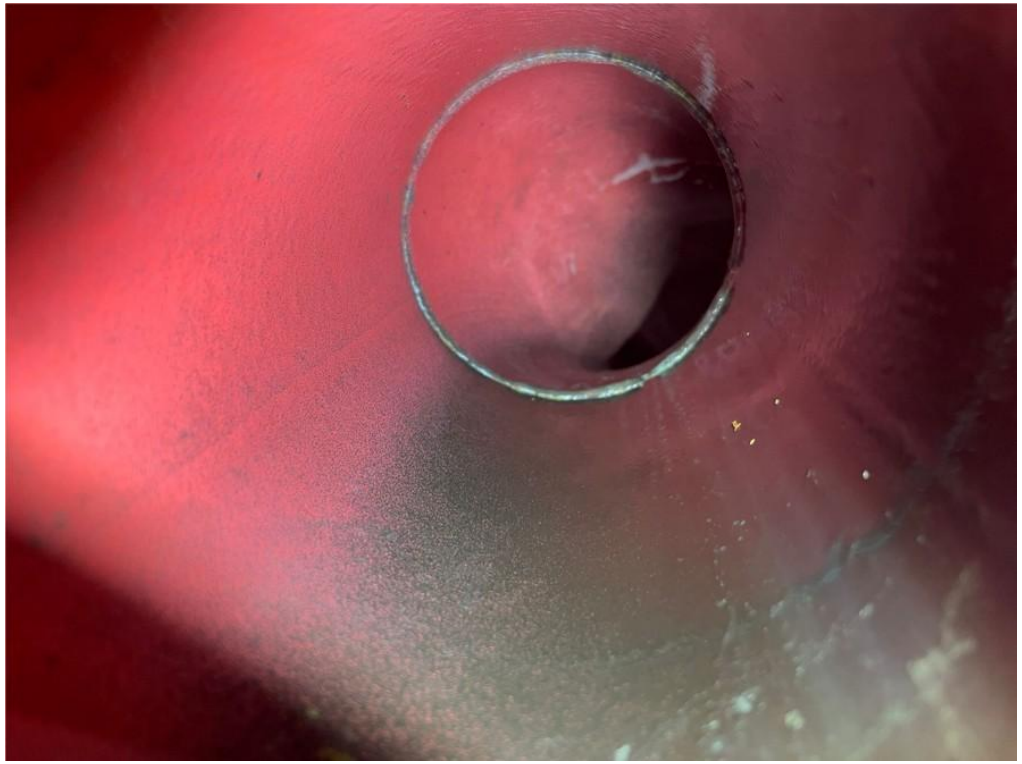
Genemuiden carpet factory

15-year-old installation



Amsterdam metro line

9-year-old installation



Reported installation ages at inspection. Images show the recorded internal condition.

Acknowledgements

Metallurgy and corrosion mechanisms

Prof. T. David Burleigh
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University of Missouri–Rolla, US



Questions?

Visit us at the
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