



armacell®

MAKING A DIFFERENCE AROUND THE WORLD

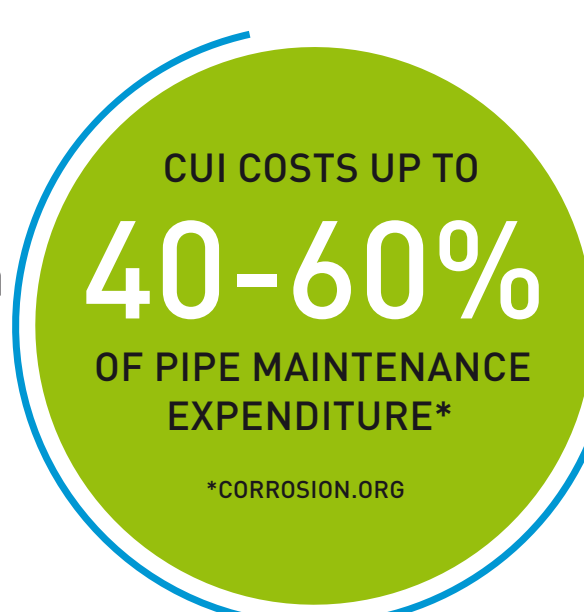
CORROSION UNDER INSULATION (CUI)

Spread of corrosion assessment in a continuous salt-water spray environment.

// The trillion-dollar problem

CUI

Corrosion under insulation can cause catastrophic failure of equipment and prolonged downtime.



40 to 60% of pipe maintenance spend is down to CUI, costing the oil and gas industry around \$1 trillion globally per year.

// Preventing CUI

ArmaFlex® mitigates CUI:

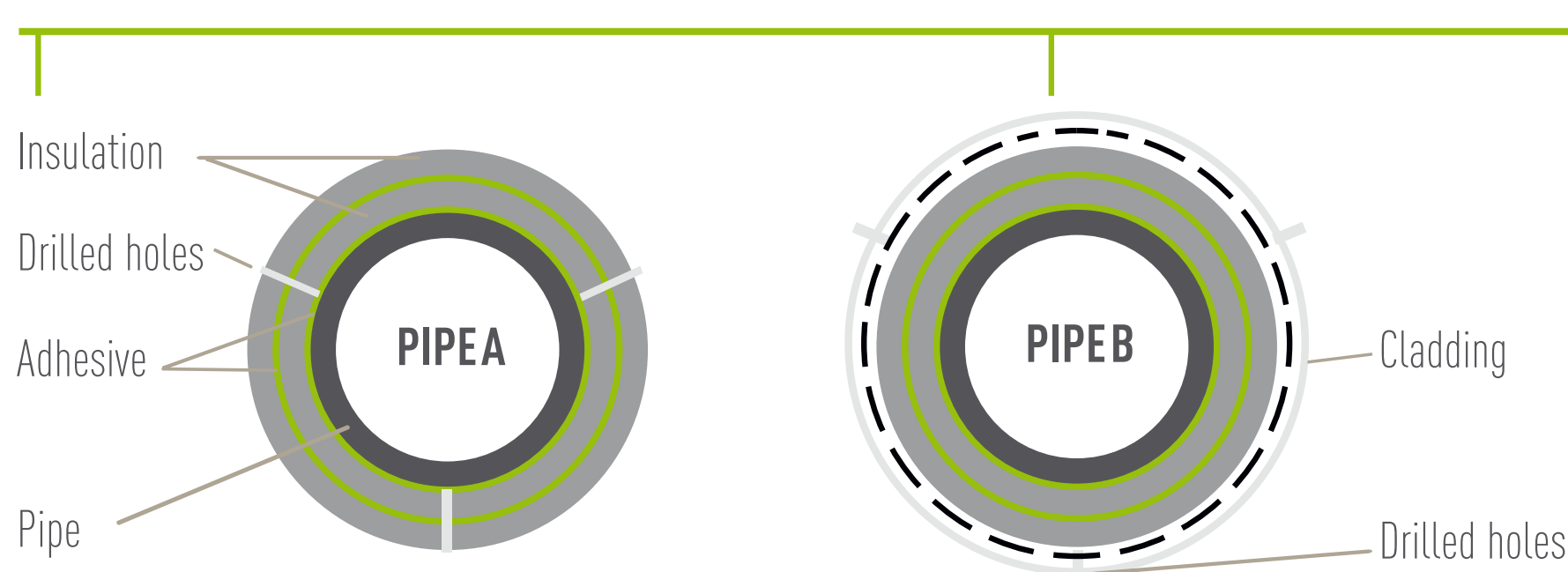
- Closed-cell flexible elastomeric foam (FEF)
- Highly effective moisture barrier
- Vapour-tight seams through excellent adhesion
- Low level of leachable chlorides
- Neutral PH value
- Easy maintenance and inspection



// A tough test

Corrosion experts, TNO/Endures, installed two pipes covered with ArmaFlex, one with GRP cladding and one without.

Insulation and cladding had holes drilled in different parts of the system.



35°C salt water sprayed onto pipes over 6 months.

Corrosion guaranteed to occur.

// Result: corrosion stopped

The independent research found that:

Drilled holes

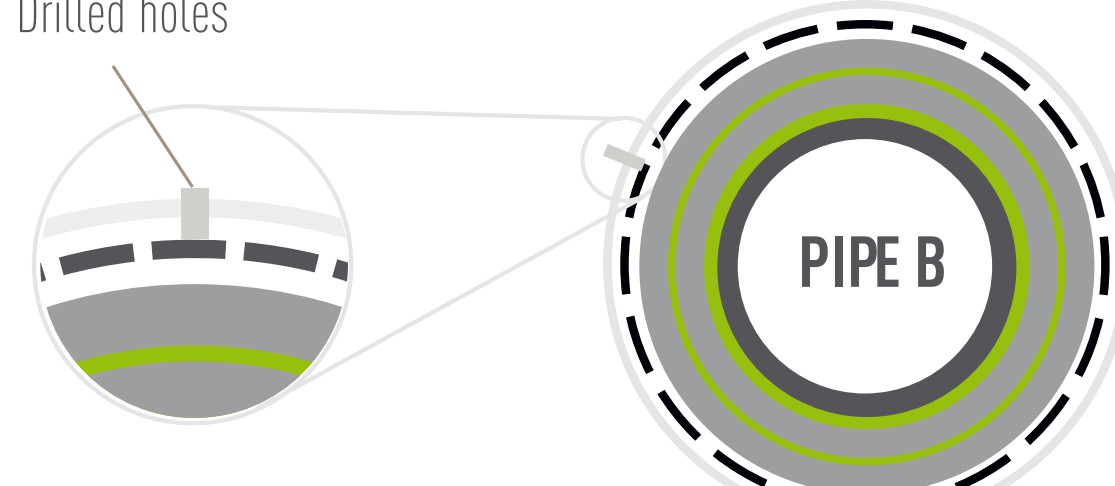


Pipe A:

ArmaFlex closed-cell FEF material, used in combination with ArmaFlex adhesive, limits the spread of corrosion to areas just under the holes.

“No significant corrosion is observed in this area” says TNO/Endures

Drilled holes



Pipe B:

Water ingress did not penetrate the insulation.

“NO CORROSION” says TNO/Endures

// Proven performance:

The test shows that in an environment ideal for CUI,

“The ArmaFlex system mitigates and restricts the spread of corrosion”



// For more information:

www.armacell.com/oilandgas/cui

