



INDUCOAT[®]
Leader in surface hygiene

Introduction of Dutch approach to Why, How & What
**New Dutch generation of
anti-microbial coatings**



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Why, how & what in 35 minutes
Mike Frankhuizen
Managing director of Inducoat
B.V.



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Foundation of it all = Why?

Why anti-microbial
coatings?



1



2



3

Why we started
Inducoat?

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The more you know, the more
you know you don't know.

Aristotle

quote fancy

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The Empire of the Bacteria...



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MAKE GIFS AT GIFSOUP.COM

The Empire of Mould...

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youtu

2



45
Superbug kills surgeon who
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SUPERBUG
DEATHS
DOUBLE

By Julie Whiston
 Health Correspondent
 A KILLER superbug epidemic is sweeping through Britain's hospitals and experts warn that next year deaths could double in five years. Doctors fear that they are being hit by a new, deadly superbug called MRSA.

AMBULANCES
SPREAD MRSA

By Julie Whiston
 Health Correspondent
 Ambulances may be spreading MRSA, a superbug that has caused the deaths of thousands of patients in hospitals.

SUPERBUGS KILL 20,000 A YEAR

By Rosy Marsh
 Health Correspondent
 HOSPITAL superbugs are claiming 20,000 lives a year. The staggering figure last night revealed the scale of a terrifying epidemic that has spread across the country.

Welcome to Walsgrave Hospital
MY FIGHT TO GET RID OF GRIME AND MOULD

I had to clean dad's hospital ward... but he still got MRSA

By Rachel Row
 Artist
 I had to clean my father's hospital ward... but he still got MRSA.

Ordeal of BBC man crippled by hospital superbug

By David Wilkes
 Daily Mail 18/8/04

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RECALL

food poison

Food Borne

Salmonella outbreak in US and Netherlands tied to smoked salmon

Published October 02, 2012 / Associated Press

Smoked salmon tainted with salmonella bacteria has sickened



Food Safety Authority of Ireland - News, views, ...



Salmon product sold in Ireland urgently recall...



Food Safety Authority of Ireland - News, views, ...



Food Safety Authority of Ireland - News, views, ...



Spinach recall issued over bacteria ...

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Coatings!?



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Esthetics....

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Conservation

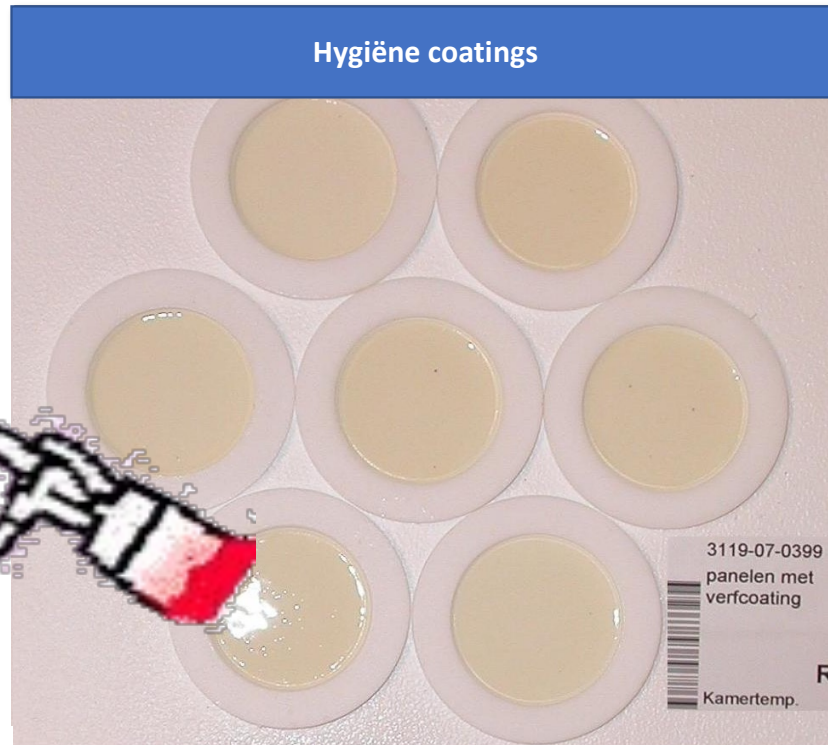
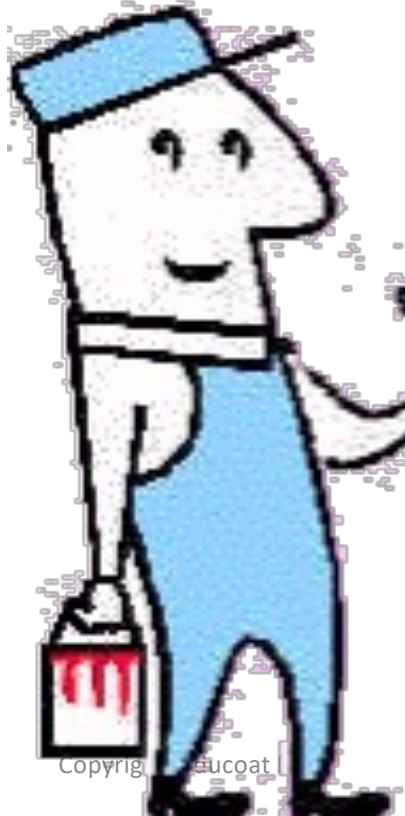
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Today:
Antimicrobial

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The ONE slide to remember today...



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(100%)

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Meet Han.



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Han was ill...



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This was Han's last room...





His room was painted with a
“regular paint”

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This is John.



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He is director of
ABBOTT Zwolle



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They produce baby
food



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All areas are painted with
anti-bacterial coating



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The doctor of Han
and John of ABBOTT
had a meeting...

Cross-Industry Learning

Hospital



The Precautionary Principle

ABBOTT

Why?

What?

How?

If you think of standardization as the best that you know today, but which is to be improved tomorrow; you get somewhere.

Our business side



- Inducoat B.V. – since 2009
- Exclusive focus on antimicrobial coatings:
Mould, Bacteria & Algae
- HQ Based in The Netherlands, 4 European factories
- Since 2012 Brinia Coatings - Jack
- Mike Frankhuizen: MD

We accept
that
bacteria...



SERIOUS HEALTH
RISK



MULTI-RESISTANCE
(NO MEDICINE)



WHAT YOU DON'T
SEE, CAN BE THERE

Which anti-bacterial coating?



Legal standards



Test standards



Practice based evidence



Cross industry learning

#1 Legal

Dutch approach with global impact



Legal...

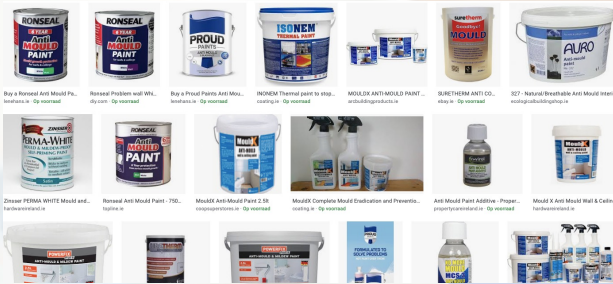


Authorization

“Everybody”

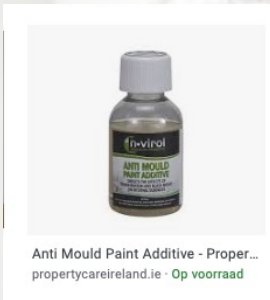
“Only Authorized”

Trick or treat?



Hygiene paint

Bacteria
"resistant" paint



Authorized
bacterial paint



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Lab evidence

ISO, TNO, Your lab

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Antimicrobial test methods for coatings

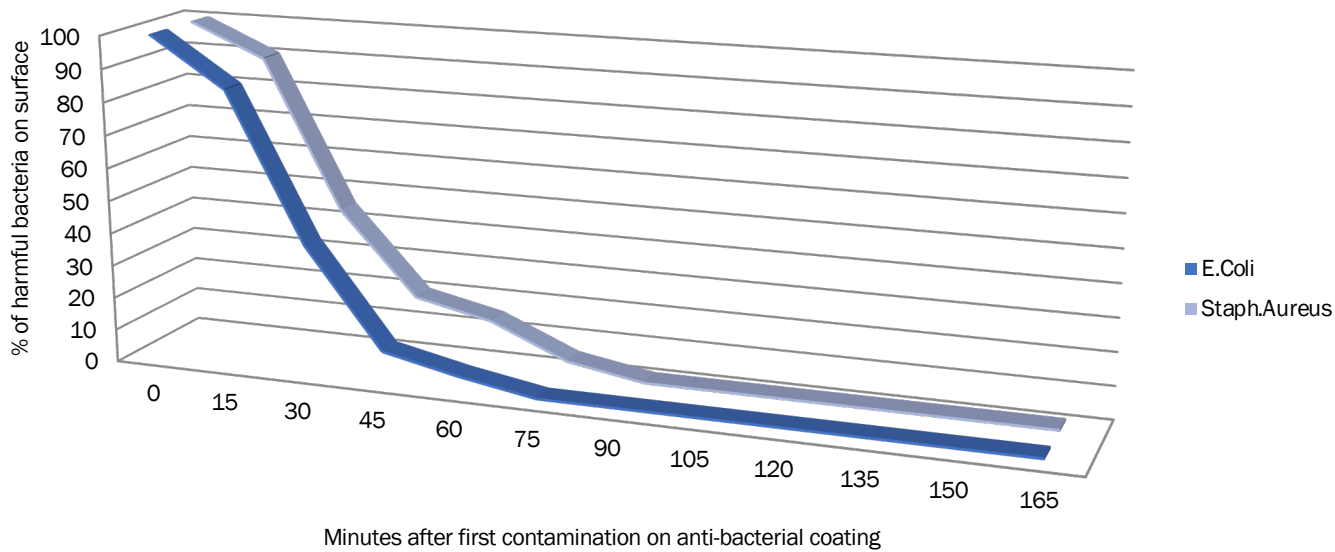
- A coating is currently classified as being antimicrobial if it is capable of preventing the growth of bacteria by approximately 99.8%
- There are three major methods:
 - ISO 22 196
 - TNO SEED LAYER TEST
 - PRACTICE BASED TESTING





ISO 22.196:2011

ISO 22.196 Anti-bacterial efficacy coating



CERTIFICATE OF ANALYSIS Page 1 of 1
Inducoat BV
Spacelab 17A
3824MK AMERSFOORT
The Netherlands

CERTIFICATE NO. 1034621.58/11909
 CUSTOMER REF. 8044

SAMPLE DETAILS DATE RECEIVED 29/01/2018
 INDUCOAT ORDER NO.

METHOD: Determination of Antibacterial Activity using Test Based on MOD ISO 22196

DATE ANALYSED 31/01/2018 **DATE REPORTED** 02/01/2018

RESULTS (AS CFU CM²)

SAMPLE	SPECIES	CONTACT TIME		REDUCTION (INITIAL)	
		0 hrs	24 hrs	Log 10	%
2K WATERBASED PU + 15% CATALYST (CONTROL)	Strep equi	9.8E+03	4.7E+02		
2K WATERBASED PU + 15% CATALYST (BIOMASTER AT300 @ 0.5%)	Strep equi	9.8E+03	< 11.11	≥ 2.94	≥ 99.89%

Key: NS = Poor survival on control supplied.
 The above data show the difference in the population following contact with the surface of the samples listed for 24 hours at 35°C under a RH of > 95% relative to the initial population.

IMSL MICROBIOLOGICAL SERVICES LTD MANAGING DIRECTOR
Peter D Askew
 PALE LANE
 HARTLEY WINTNEY
 HANTS RG27 8DH
 UK

Industrial Microbiological Services Ltd Registered in England No: 3264423 Registered Office: The Old Millers Hall Oxford Road Reading RG1 1NS





Practice based evidence

Since 2009 on-site real life test data

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Hospital – Mr Leo Ummels

Mr Ummels has concluded that the rooms with Inducoat®

“can have a significant impact on higher safety level for the patient”



- Mr Leo Ummels, infection control specialist, has tested Inducoat in several high care units of the Radboud Hospital in Nijmegen, The Netherlands.
- Mr Ummels has taken 128 swabs of the walls in 6 rooms during 24 months*
- Mr Ummels has concluded that the rooms with Inducoat “can have a significant impact on higher safety level for the patient”

**Although these test results are highly confidential, Inducoat® has the unique privilege to refer to Mr Ummels for these results.*



Project Coatings Shine Hygiëne Coatings Quality Improvement Plan

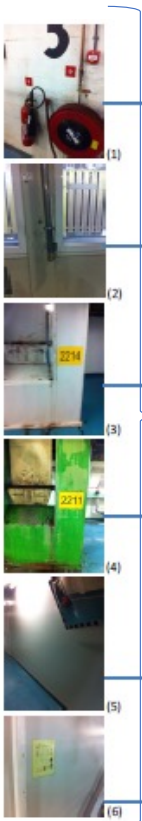
(CIHC-QIP) 2017-2020

07.11.2017

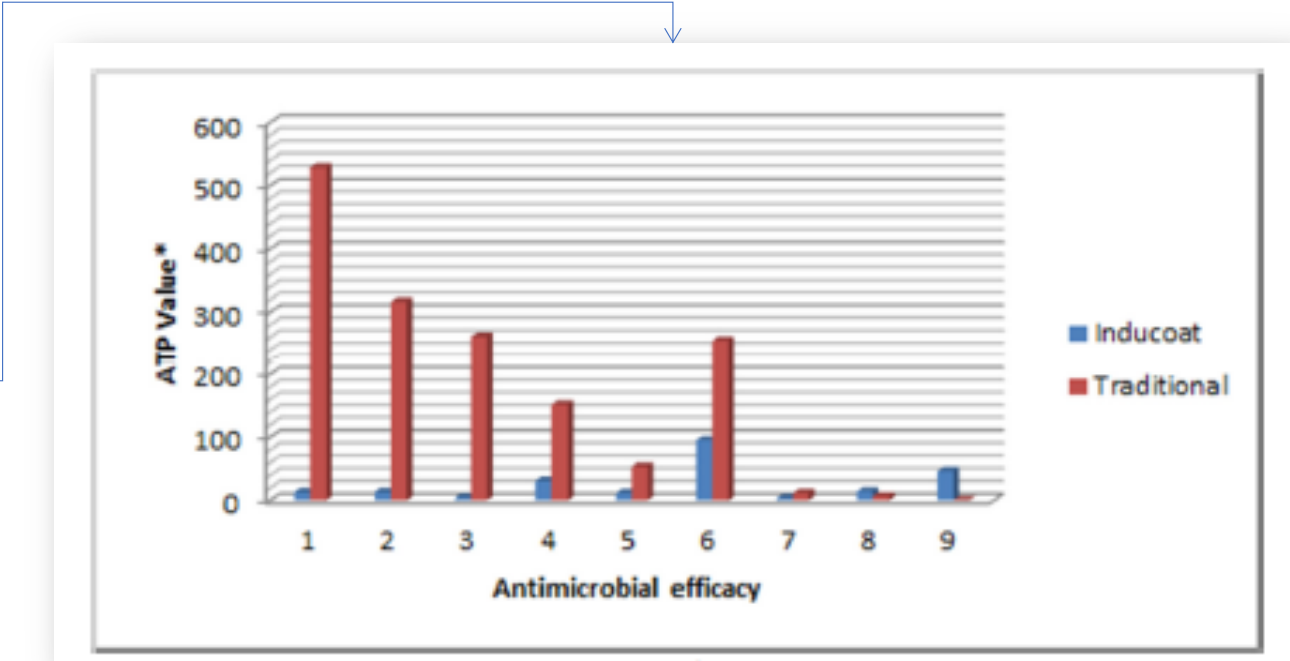
FSQR/QA Cargill/Inducoat/Viterzo/Willemsen



Result: Hygiene Coatings Quality Improvement resounding success



In 2011:
6 initial test sites
-
pressing,
packing
area's



Example of split run result



Project Coatings & Shine / Inducoat B.V. / Mike Frankhuizen



Zwolle

ABBOTT Laboratories



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Risk driven

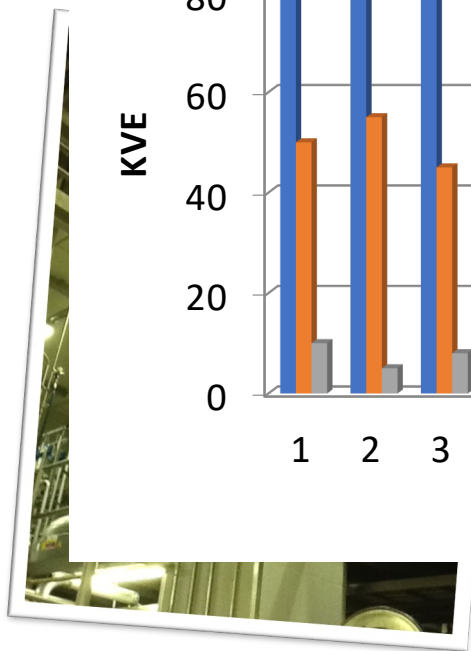
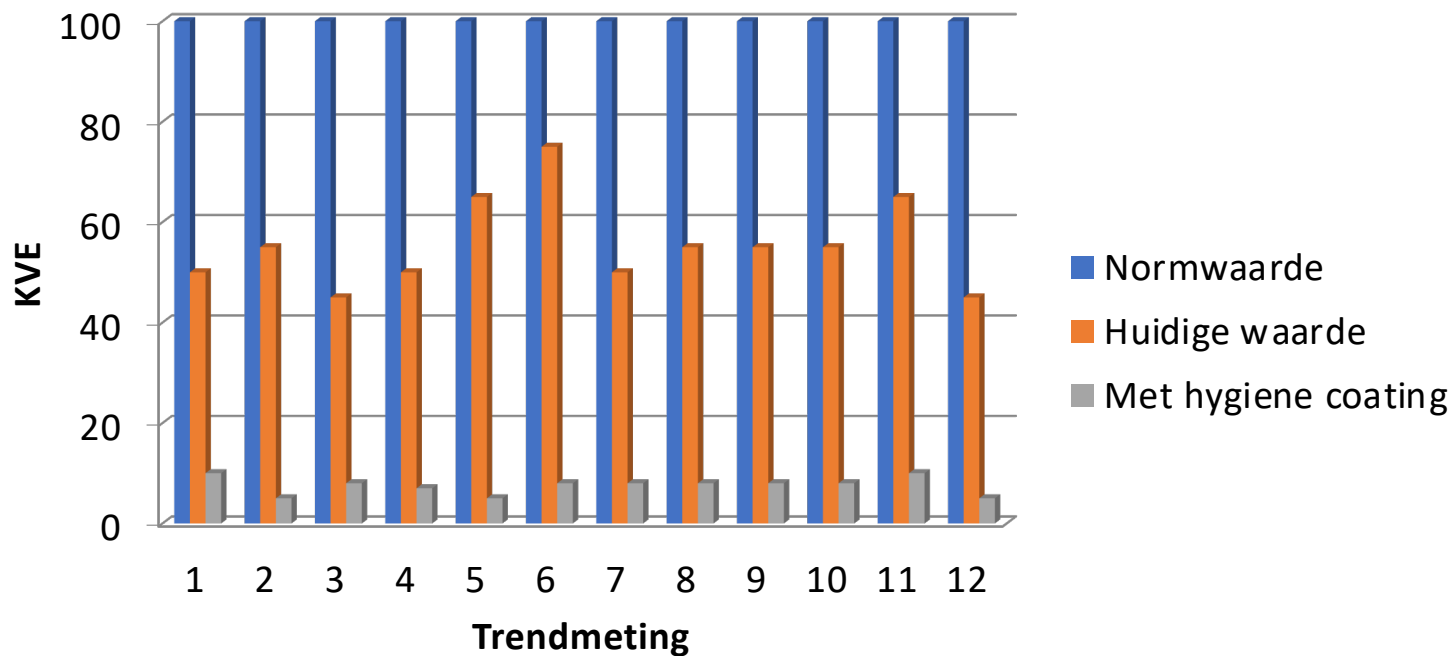


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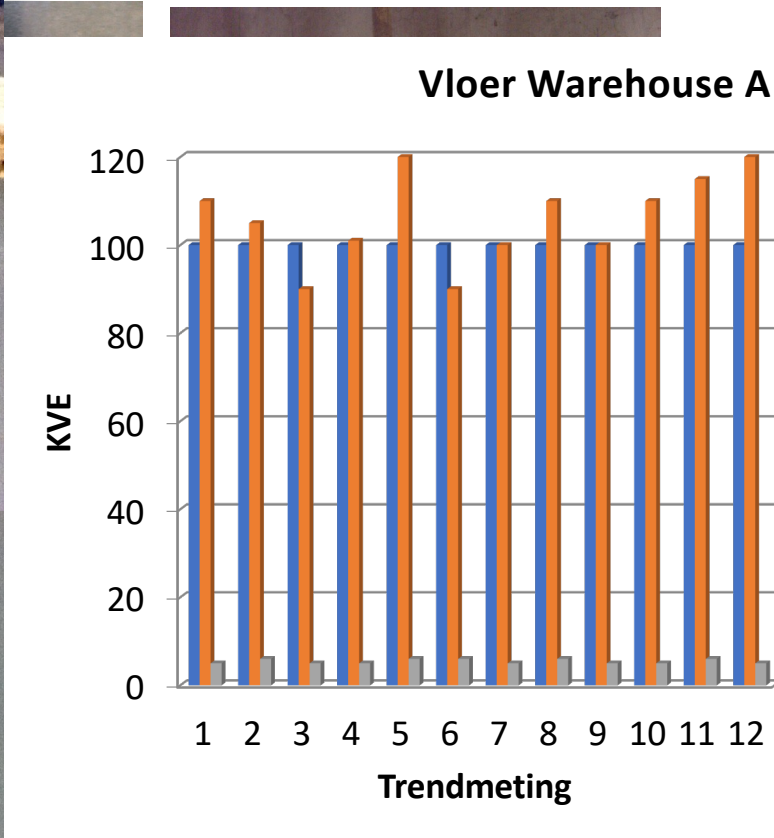
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Ambient hygiene

Productieruimte A



Including “Non-critical surfaces”



Touch point analyses...



Multi-disciplinary



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Interim conclusion: We know why & what



Legal



Lab proof



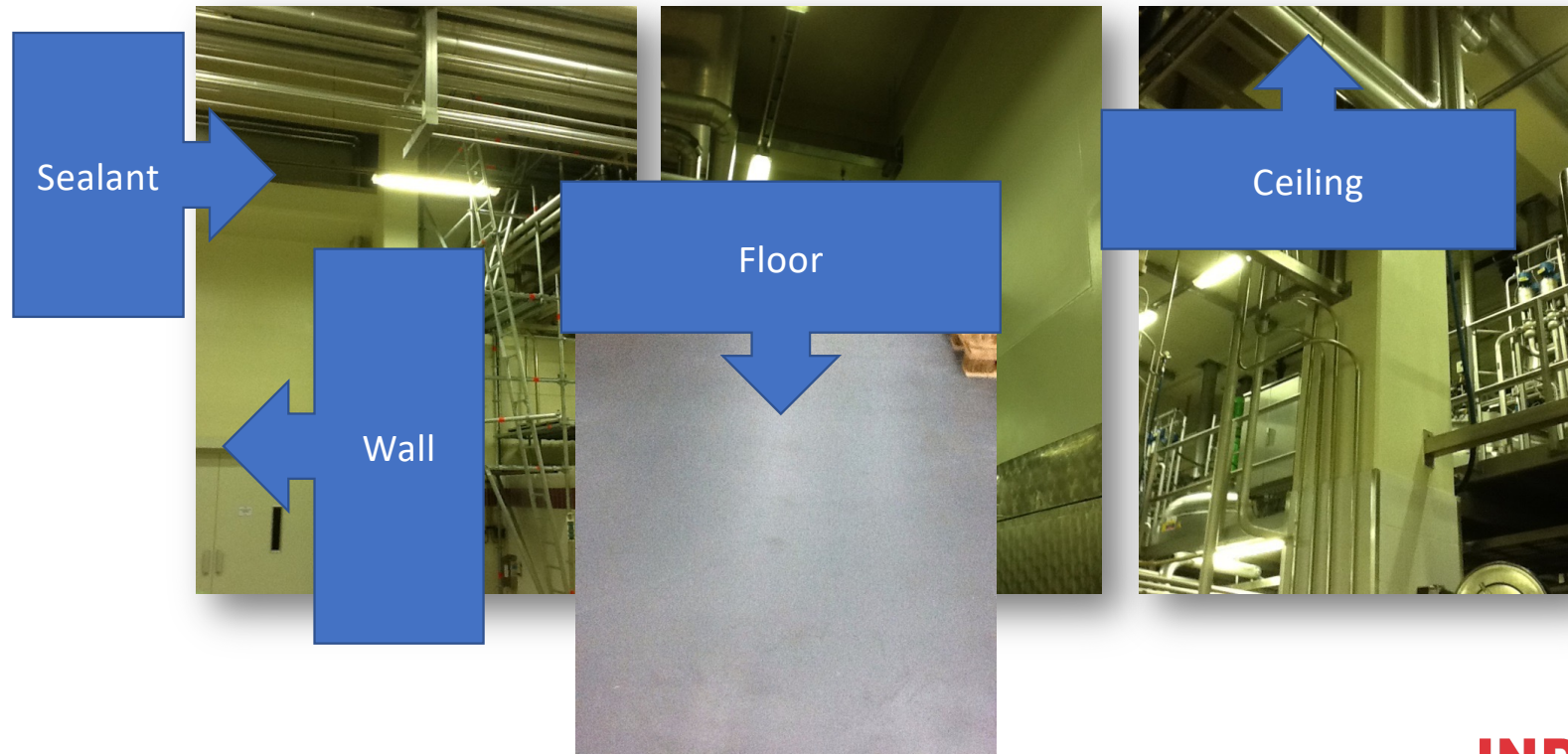
Practice based
evidence



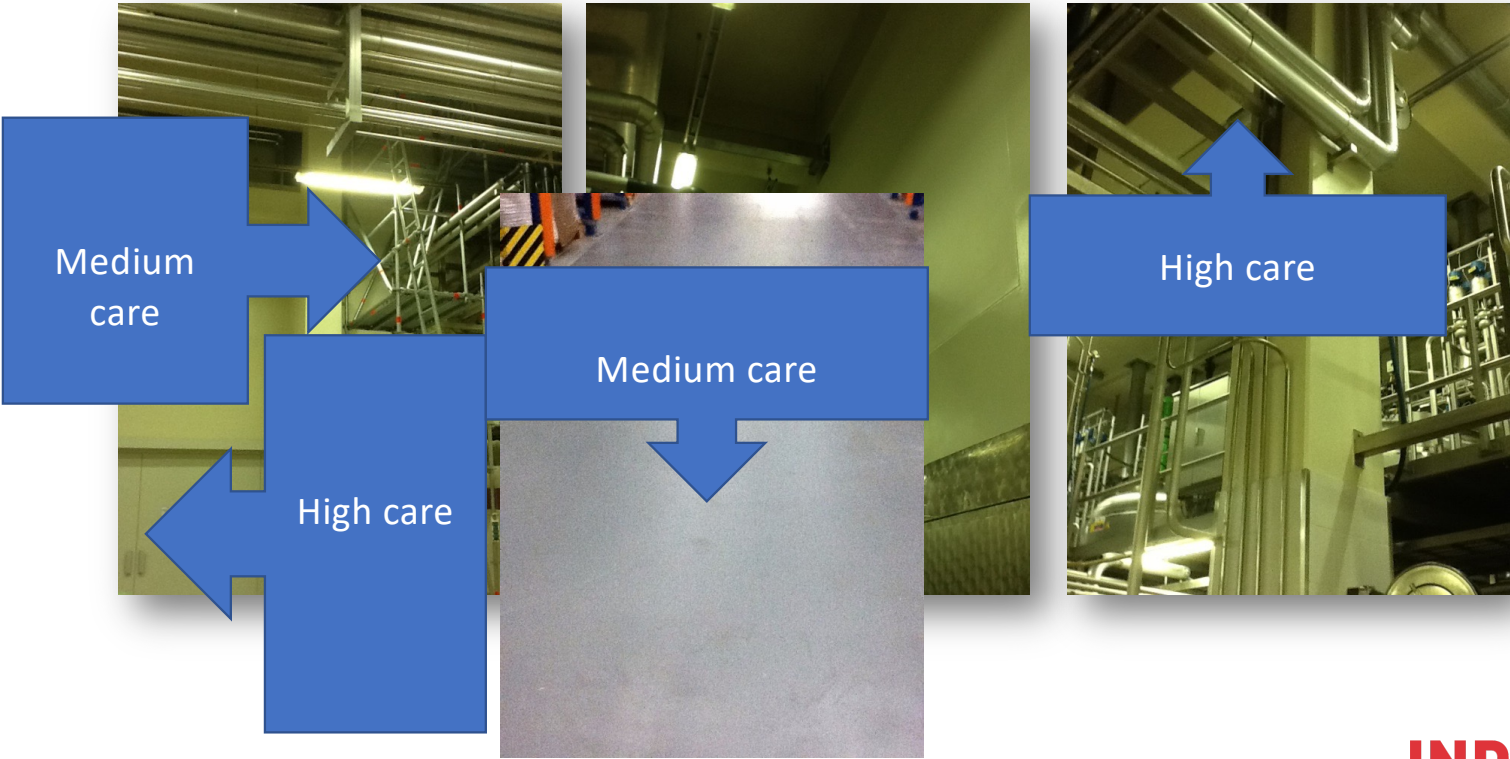
Practice based choice

The How = Which coating?

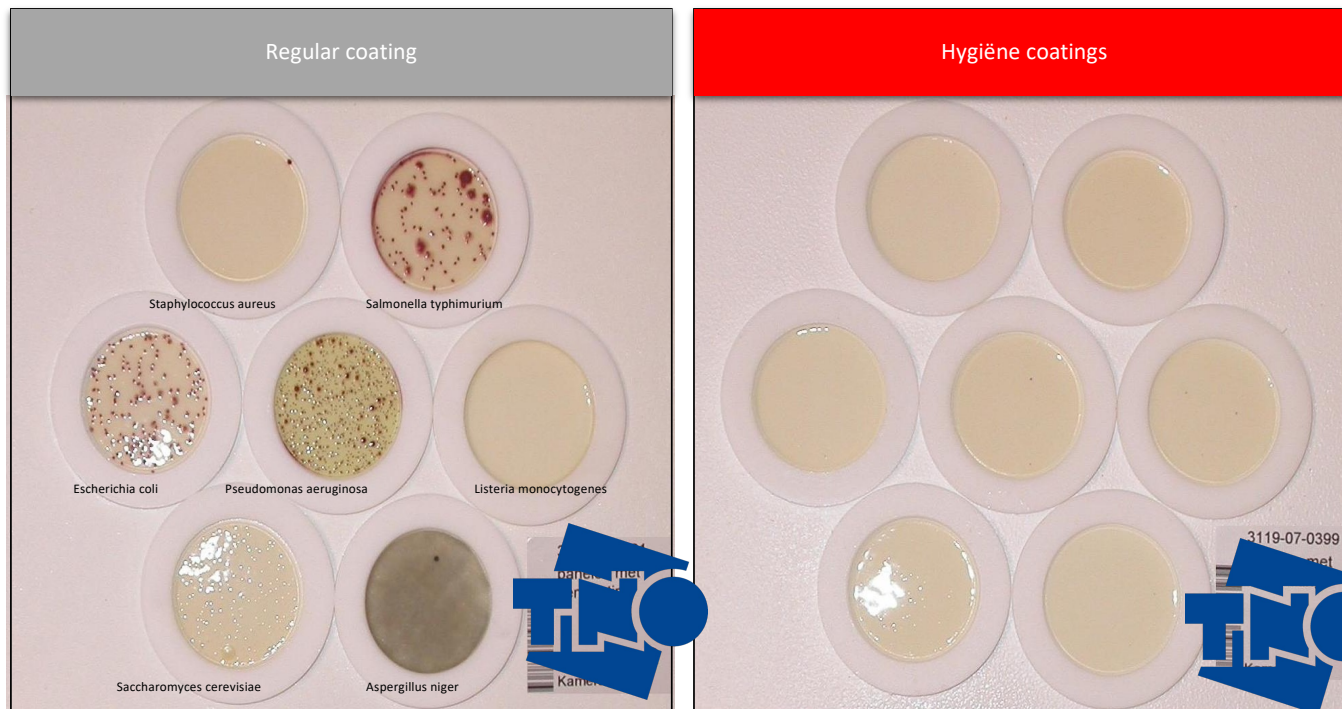
Step 1: Where is the maintenance?



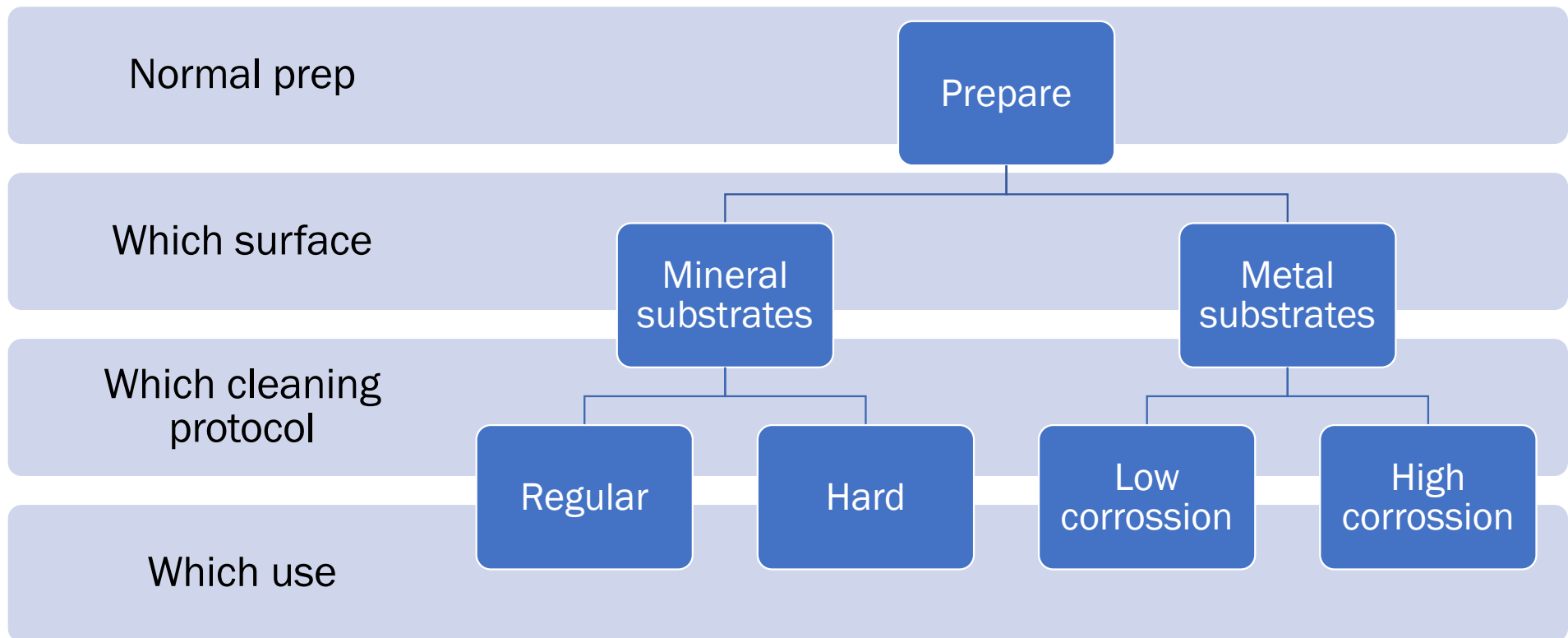
Step 2: Classification



Step 3: Qualified choice



System build-up example



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To conclude

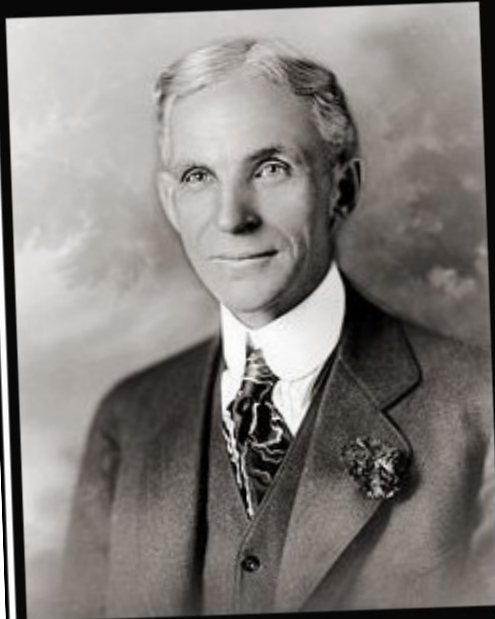
Relevant, credible and distinctive

Ambient hygiene

- You are content with the current situation.
- But you are always trying to find improvements.
- Brinia offer:

[FREE] Risk Inventarisation and Evaluation(RIE)
of your site = WHAT + HOW.





Coming together is a beginning, staying together
is progress, and working together is success.

(Henry Ford)

izquotes.com

Questions?



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