

# Intergard® 10220

Waterborne peelable coating for quick in-field signature change and CW agent protection



**AkzoNobel**  
Aerospace Coatings

## What it is:

- A waterborne, temporary, peelable coating for application on standard CARC polyurethane coatings
- Suitable for application on plasterboard, glass, brick and concrete

## How it works:

- Spray or brush apply on top of CARC polyurethane coating
- Peel off the coating manually in case of exposure
- Remove remaining coating by high pressure water blasting
- Place peelings into a bag and dispose appropriately

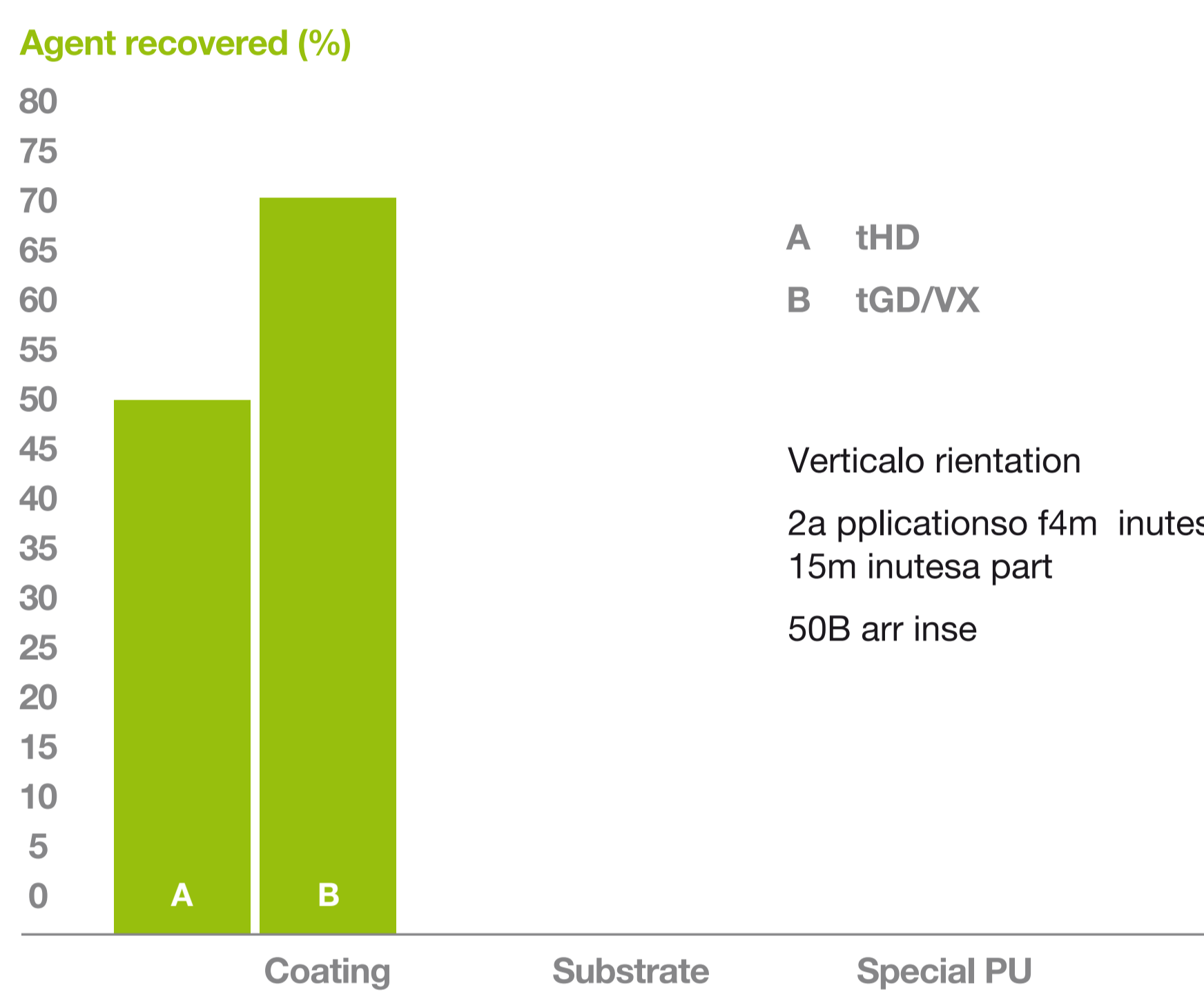
## Main properties:

- Provides quick camouflage change
- Absorbs CW agents:
  - tHD of ~50%
  - tGD and VX of ~70%
- Protects against break-through to underlying CARC surface
- Allows CW agents, remaining on the temporary coating, to be neutralized by decontamination fluids without negatively impacting coating properties
- Provides thorough decontamination, even on complex surfaces
- 90% of temporary coating easily removed manually, remaining 10% easily removed by high pressure water blasting (A 4-men team can remove more than 96% of the coating in 30 minutes)
- Protects assets against weathering and corrosion, is long lasting, and will not degrade

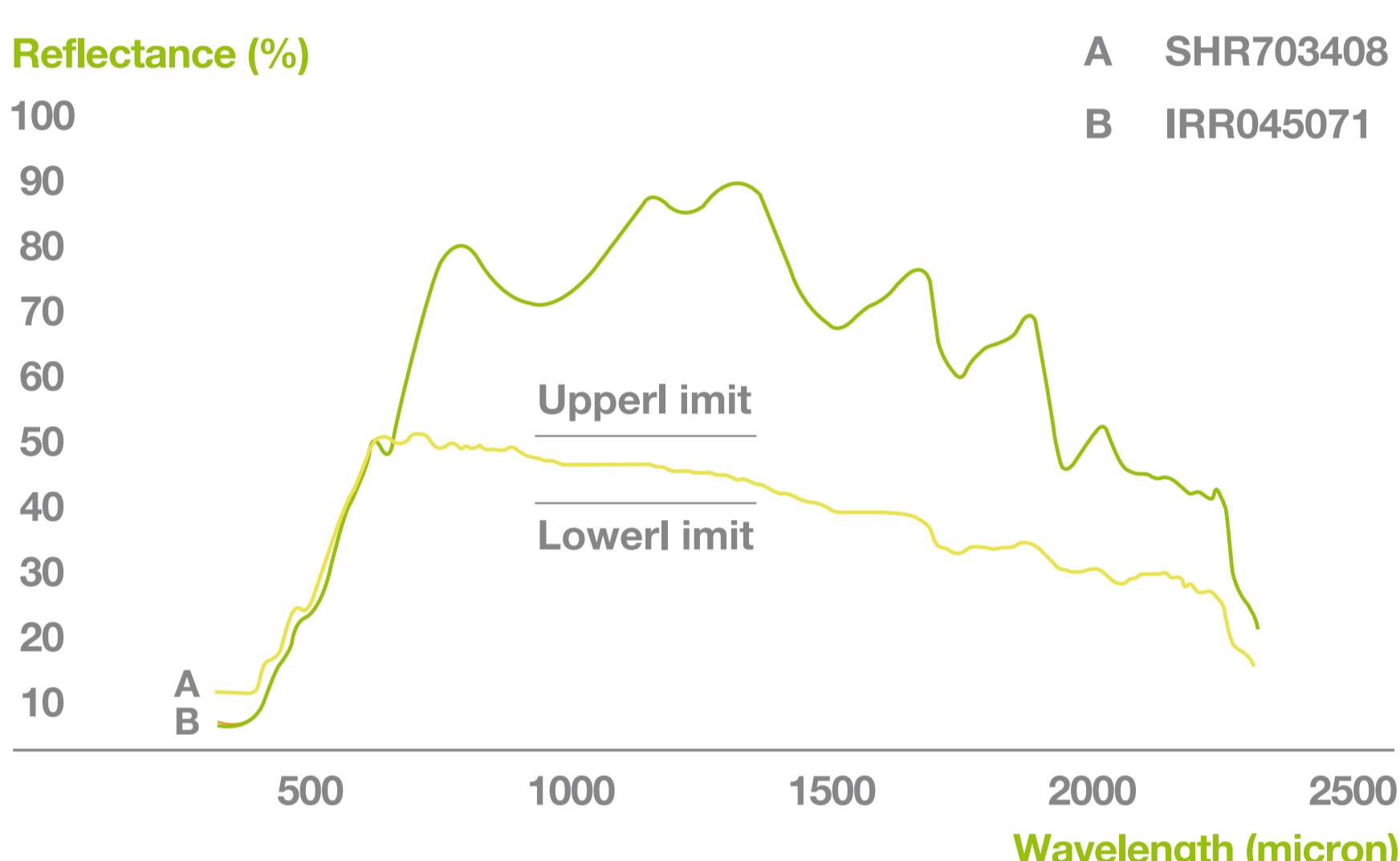
**Special PU**  
Chemical Agent Resistant Intergard 10212 (STANAG 4360 issue 2)



Coating



## Intergard 10220 - Same color with reflectance limits



## Benefits achieved through decontamination:

- Limits ingress of chemical agent into complex surface features, reducing entrapment and therefore improving decontamination efficacy
- Reduces the use of decontamination chemicals by up to 80%
- Allows for environmentally progressive disposal of peelable coating
- Harsh chemical agents and decontamination fluids cannot be rinsed into the ground (lower disposal costs)
- Minimizes operator exposure to CWA s □ the CWA s are trapped in the coating and not diluted and spread by decontamination fluid



## Future research and development:

- **Super Absorbing Topcoat (SAT)**
- An 18 months feasibility study, in conjunction with DstL, currently focuses on how to increase the agent absorption properties of Intergard 10220.
- Prototype coating reaches ~90% absorption of tHD in 1 hour and complete absorption of HD in less than 1 minute!
- Radiological tie-down coating □ collaborative programs on the way

## Tested to:

DEFSTAN 80-220

## Meets:

NATO Decontamination Standards STANAG 4360 edition 2, if used in combination with Intergard 10212 =

HD < 10 micrograms/cm<sup>2</sup>  
VX & GD < 1 microgram/cm<sup>2</sup>

## Options:

- Intergard 10220 can be formulated to meet specific customer requirements
- Non-slip properties through the use of Intergard 10320
- Object temperature reduction through SHR (Solar Heat Reflectance) technology
- Incorporation of TIR technology



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