

Anna Berggren, Market Segment Manager Resins Kent Hamacek, Global Product Manager



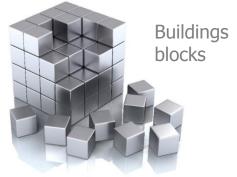




Drivers















The Alkyd journey

1940's

The alkyd journey started

1960's

Focus on work-environment

1980-90's

Launch of waterborne solutions for outdoor 2005

Focus on atmosphere damaging products

2010

- Focus on total systems
- Improved tehnologies

Focus now:

- VOC
- Carbon footprint
- Renewable based

Shift in focus over the years resulted in a decline in Alkyd use



Low or no VOC

Solventborne

Waterborne

Powder Coating

UV Curing

High solids





Waterborne or solventborne Alkyds

Solventborne
Resins Coatings





Waterborne Resins Coatings









Waterborne Coatings

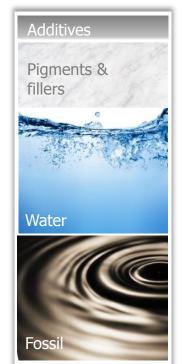
Alkyds



Hybrides



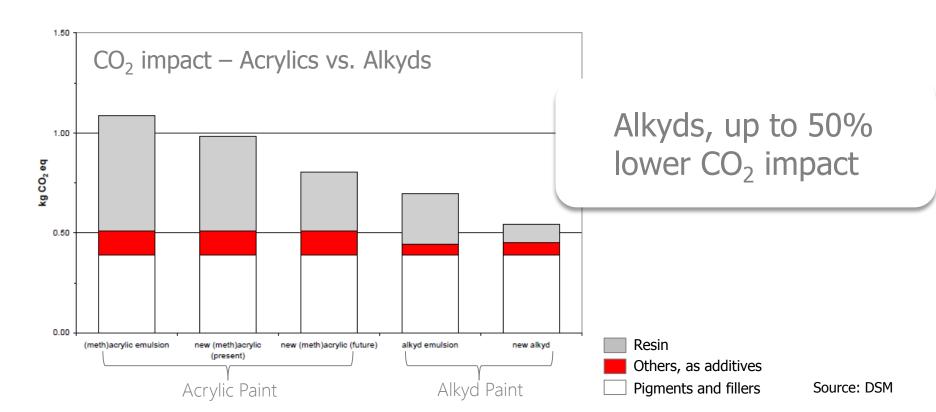
Acrylics







CO₂ impact





Market trends and drivers

- VOC, Sustainability
- Waterborne alkyds for deco coatings
- Renewable raw material
- Renaissance for Alkyds
- Increase in wood construction

Fligh performance & environmental friendliness





Beautiful waterborne Alkyds

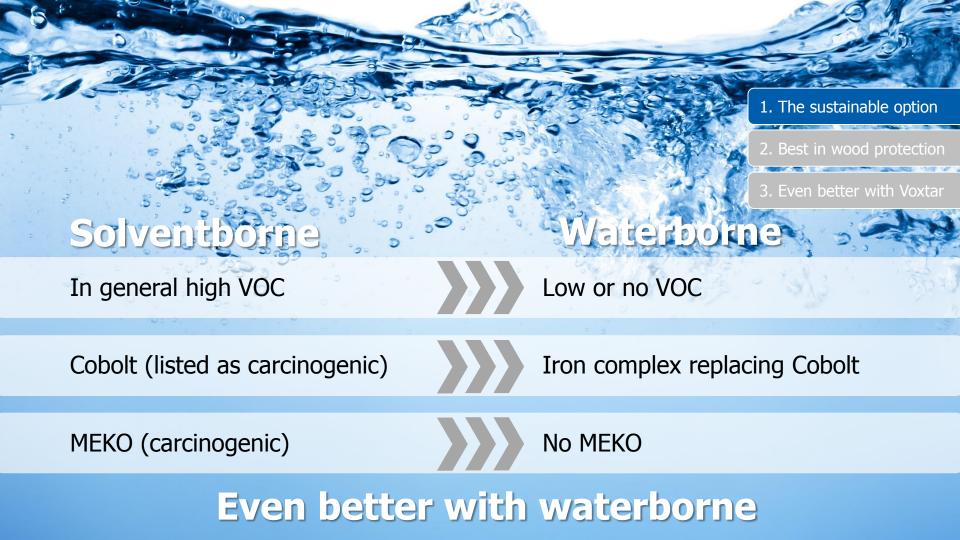
- 1. The sustainable option
- 2. Best in wood protection
- 3. Even better with Voxtar

Renewable raw material

Low VOC



Outstanding wood protection





Beautiful alkyds

- 1. The sustainable option
- 2. Best in wood protection
- 3. Even better with Voxtai

Oxidative process once paint is applied





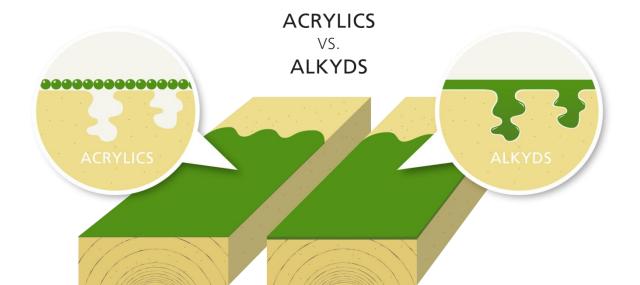


The only additive needed is air!



Best in wood protection

- > Penetrates the wood for longer lasting protection
- > Outstanding metal protection
- > Acrylics forms a film on top of the wooden surface



- 1. The sustainable option
- 2. Best in wood protection
- 3. Even better with Voxtar





Our green Penta − VOXTAR™

- > Voxtar[™] Our range of renewable Penta products
- > Up to 100 % renewable raw material*
- > Up to 80 % lower carbon footprint**

Same trusted efficiency, security and high performance you expect from PENTA

2. Best in wood protection 3. Even better with Voxtar

* Based on a mass balance system ** Cradle to grave, compared to European average



Externally stabilized alkyd emulsion

Internal stabilized water thinnable

PUD alkyd technology

