





Release Innovation™

## We improve your operating efficiency



As a global leader in the technology of mould release agents, cleaners and sealers, Chem-Trend offers value-adding solutions that reduce cost and improve quality and productivity.

#### **Markets served**





## Zyvax® – the complete portfolio



- Water-based and solvent-based systems
- Mould cleaners
- Mould preparation primers
- Mould sealers
- Mould release agents
  - Semi-permanents
- Surface tack enhancer

# Zyvax® ancillary products



#### Mould cleaners:

- Water-based or solvent-based
- Essential for ensuring contaminant-free mould surface and subsequent bonding of semi-permanent release agents
- Quick and effective cleaning without damage to mould surface
- Can be used to clean parts

## Zyvax® mould preparations



#### **Primers & sealers:**

- Water-based or solvent-based
- Help minimise buildup and keep moulds in production longer
- Extend the durability of the semi-permanent release agent

#### Extend the ROI on your moulds by:

- Restoring older or damaged tooling, without replacement or expensive refurbishment
- Minimising tool imperfections and helping retain vacuum integrity
- Defending tooling from damage and extending tool life

## Zyvax® semi-permanent release agents



- Water-based or solvent-based
- Multiple releases
- Low buildup, less time spent cleaning moulds
- Low transfer to part, easier preparation for post-moulding painting or bonding
- Variable slip levels available depending on moulding parameters and process
- Suitable for use with all thermoset resins and pre-pregs
- Suitable for use with TP materials such as PEEK, PPS and PEI pre-pregs
- Suitable for use with infusion and RTM processes

## Zyvax® surface tack enhancer



- Water-based
- Applied to the mould surface, allows precision "stacking" of pre-pregs and peel-plies by creating a temporarily tacky surface
- Helps to facilitate wrinkle-free layout
- Easy control of placement with applicator bottle
- Prevents peel-ply from sliding on released mould surfaces
- Allows accurate pre-preg placement
- Highly visible on mould surface
- Saves time during lay-up process
- Doesn't interfere with the releasing surface of the mould
- Can be applied specifically where needed

# Zyvax® products for industry requirements 7



- Mould and part cleaners to deliver fast and efficient surface preparation
- Primer and sealers to seal surface porosity and protect expensive mould tooling
- Semi-permanent release systems to ensure reliable release whatever the resin, process or part complexity
- Surface tackifier to aid accurate placement of dry pre-pregs

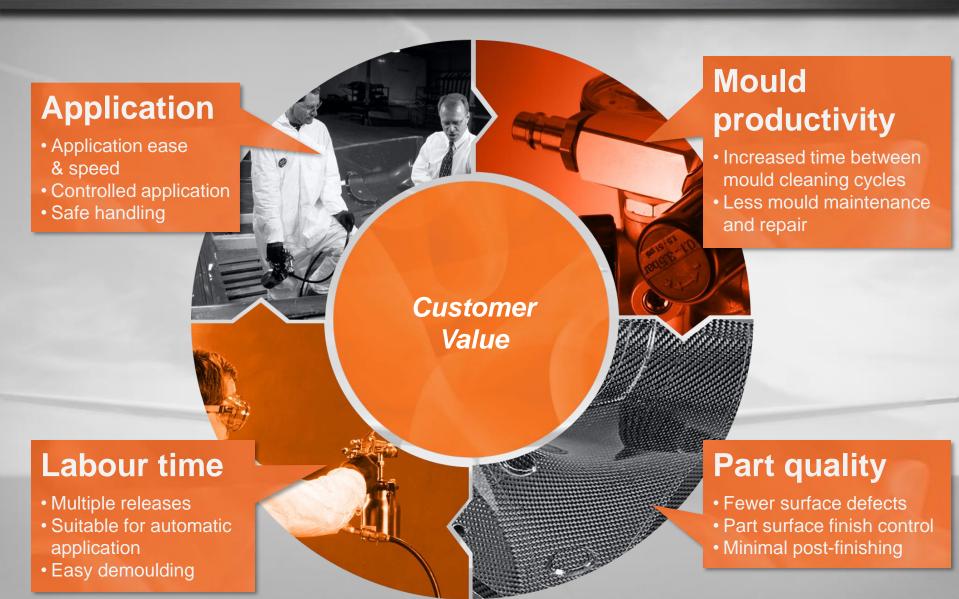
### **Application control meets industry specs**



- Bulk materials for automated process spray application
- Wipes for greater control and safe hand application
- Application on metallic or polymeric moulds, hot or cold
- Surface tackifier to ensure proper fiber placement in complex shapes
- Zyvax® release system products have a proven track record within the aerospace industry with a variety of approvals from major OEMs

## Zyvax® value-adding solutions





## Serving the aerospace industry





### On track to meet aerospace demands



Complex composites structures

Industry Trends

VOC reduction

Increasing production & output demand

New materials and processes

#### **Our Innovation Response**

#### Release agents that:

- Are water-based
- Improve quality and productivity
- Are user-friendly, quick and easy to apply
- Are proven to work with both thermoset and TP pre-pregs

- Deliver reliable performance
- Work on the full range of moulding processes and mould substrates
- Comply with global regulatory lists

#### Global reach



Offices, manufacturing facilities, laboratories and distribution partners all over the world to serve you wherever you are.

#### The Chem-Trend difference



Value, performance and dependability delivered through insight, focus, hands-on knowledge and strength

- Industry knowledge
- Industry-dedicated R&D and technical support teams
- Singular focus on release agent solutions
- Support on your production floor
- Globally integrated to serve you where you are
- Market leader positioned for continued growth
- Sustainable approach to business

# Chem Trend

Release Innovation™

THANK YOU