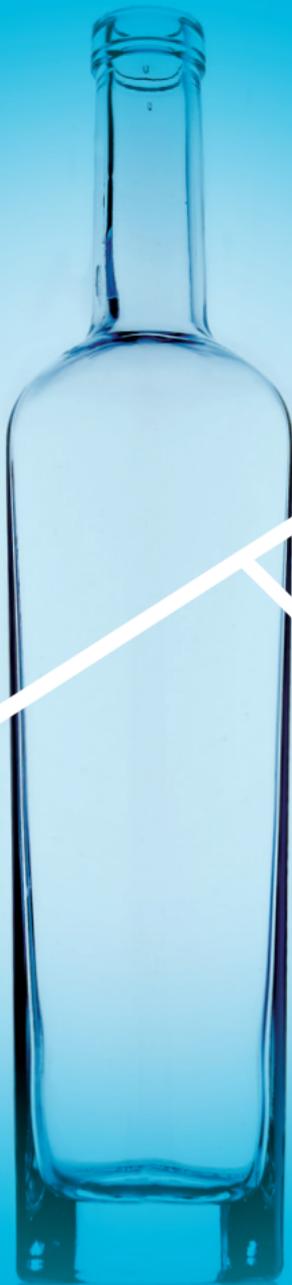


CERTINADVANCE<sup>®</sup>  
BY ARKEMA

Are you Certin<sup>®</sup> to be  
the best in glass?





## CERTIN® CLEAR A NEW HOOD DESIGNED TO MAKE OUR HEC PERFORM AT ITS BEST

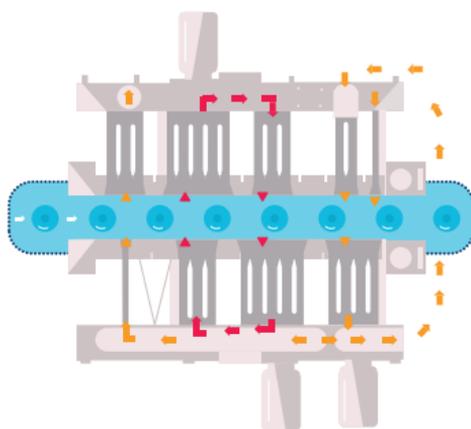
### ———— HOT END COATING T-HOOD ————

**Certin® Clear** is the hot end coating part. The T-hood is designed to apply a tin oxide layer using a chemical vapour deposition (CVD) process and to coat a wide range of glass containers at different production speeds. This hood suits a wide range of production lines. A standard heating element is installed to ensure fast turnaround following a job change.

#### New T-hood with its patent pending loop system

✦ A complete new layout takes care of inner- and T-loop turbulent air circulation inside the hood. Combined with a laminar airflow at the finish and at the outlet of the hood, a homogeneous hot end coating is achieved on the glass containers.

✦ High cooling capacity from the new chicane cooling combined with the PLC-controlled system makes it possible to maintain a constant temperature inside the hood.



#### A distance e-monitoring: enhanced real time control

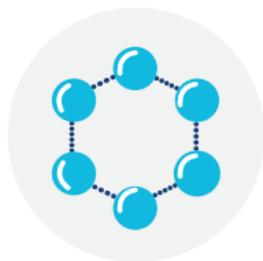
A data communication system makes it possible to visualize all the parameters from a distance in a comfortable and easy layout with precautionary warnings. Arkema offers direct assistance should any issues arise.

## CERTIN® COAT TC101 HOT END COATING

**Certin® Coat TC 101** is an updated chemistry used in the Certin® Clear part of the process. The flow of Certin® Coat TC 101 is detected by a flow alarm and connected to the controller, which will alert you in case of no flow.

### A new Hood with Certin® Coat TC 101, designed to produce:

- ✦ **Less emissions**
- ✦ **Less deposits in the hood**
- ✦ **Less and easier cleaning**
- ✦ **Less maintenance needed**
- ✦ **Easy adjustment after job change**



*Certin® Clear offers a new hood in combination with a new product, Certin® Coat TC 101, for more homogenous coating.*

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## CERTIN® LINER A NEW PATENTED BOTTLE CONVEYING TECHNOLOGY

**The single liner** allows the transfer of hot end coated glass containers without friction or contact between containers into a single line. The single liner makes use of an X-Y-Z movement controlled by servomotors. A grabber system and easy settings help pick all types of glass containers of different widths and heights and at various production speeds. The four-pillared single liner can be used both on new and on existing lines.



*Certin® Liner is an equipment to transfer bottles in single line without friction before entering the final coating spray cabinet.*



## CERTIN® PRECISE AN APPLICATION DEVICE DESIGNED TO MAXIMIZE YOUR FINAL COATING RESULT

### SINGLE LINE APPLICATOR

The **single line** applicator is part of equipment that delivers a Topcoat where it matters. This precise coating results in very high scratch resistance and fewer labeling issues. The containers are coated from the side and therefore have no inner coating. A data communication system makes it possible to visualize all the parameters from a distance in a comfortable and easy layout. This system offers precautionary warnings as well as direct assistance from Arkema should any issues arise.

### CERTIN® TOPCOAT 201

**Certin® Topcoat 201** used with the single line applicator is a complete updated chemistry. This topcoat can be applied at a container temperature of only 70 degrees Celsius.



*Certin® Precise is a new way of cold-end coating with new spray and introduction of Certin® Topcoat 201 for higher precision of final coating.*

## SERVICE PACKAGE

As part of Certin Advance®, Arkema offers an extensive service package including:

- ◆ On-line webinars on glass coating
- ◆ Lab support from our technical team
- ◆ Regular visits for audits and on-site service
- ◆ Support by our specialists for general glass issues
- ◆ Partnership with a technology leader and a global company
- ◆ Long-term quality and supply security
- ◆ Individual consulting and assistance
- ◆ Fast and flexible assistance in urgent cases

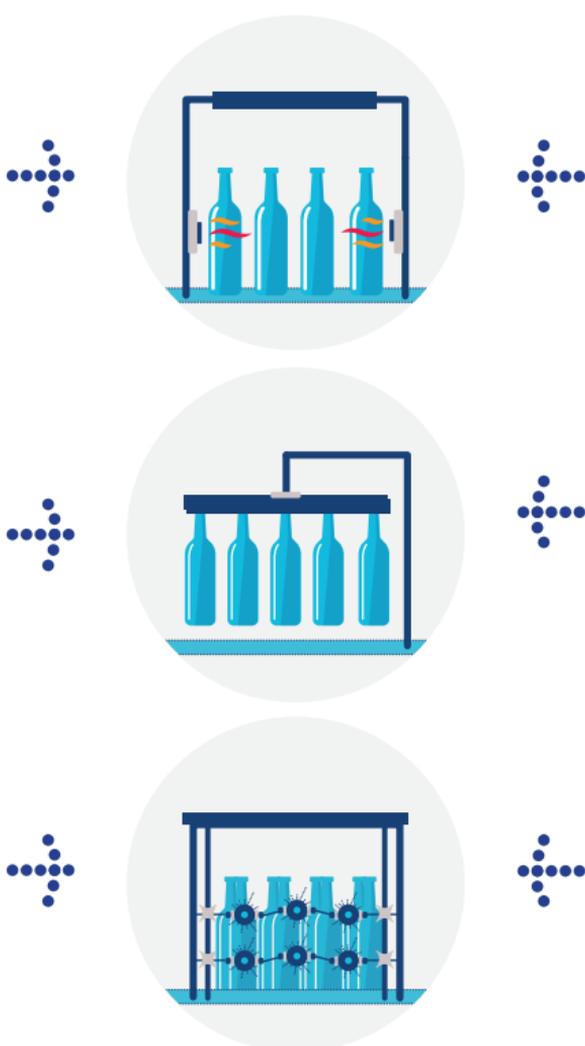
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## COMPLETE COATING PROCESS BY ARKEMA

As a material, glass requires special care as it is breakable and fragile. It also needs special care as a special type of packaging which should represent strong product quality and high brand image for fillers.

With end-markets becoming increasingly demanding, technological solutions have to respond more effectively to be in line with modern industry and consumers' way of life. Our three-step-process offer fulfils these new demands with a full package of designed equipment, optimized products and expert services.

**Discover our 3 step-program  
to improve your coating quality and  
production efficiency with  
Certin® Clear, Certin® Liner and  
Certin® Precise.**





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**CERTINADVANCE<sup>®</sup>**  
**BY ARKEMA**

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