## micro dispensing in perfection!





## preeflow

by ViscoTec

## preeflow<sup>®</sup> 1K dispensers

The brand with the systematic approach. preeflow<sup>®</sup> – high-quality products ranging from control units to dispensers that live up to our vision 'small, precise, economical'. preaflow eco-PEN330 preeflow eco-PEN450 eco-PEN450 min. dosing quantity 0.004 ml volume flow 0.5-6.0 ml/min weight approx. 410 g

eco-PEN300 min. dosing quantity 0.001 ml volume flow 0.12-1.48 ml/min weight

approx. 380 g



## preeflow® 2K dispensers

0

0 0

eco DUO

0

prestion eco-PEN600

prestion eco-PEN600

eco-DUO600 min. dosing quantity 0.030 ml volume flow 0.6-32.0 ml/min weight approx. 1,600 g

prestow eco-PEN450

eco-DUO450 min. dosing quantity 0.010 ml volume flow 0.2-12.0 ml/min weight approx. 1,100 g

eco S DUO

1 8

10W<sup>®</sup> eco-PEN330

eco DUO

1

Preseflow eco. PEN330

eco-DUO330 min. dosing quantity 0.005 ml volume flow 0.1-6.6 ml/min weight approx. 1,100 g



Precision mechanics coupled with the latest digital control – a perfect combination. Designed to optimize your 2K process. preeflow<sup>®</sup> – micro dispensing in perfection!

## preeflow<sup>®</sup> 2K controllers



#### C200-DUO



easy

fast

You can find more information about our 2K equipment and the other preeflow<sup>®</sup> products on our website: www.preeflow.com



## preeflow<sup>®</sup> spray dispensers

The new precision volume dispenser eco-SPRAY made by ViscoTec offers a wide range of applications for low to high viscosity spray media. The preeflow® eco-SPRAY guarantees a volumetric spray application based on the endless piston principle. The base of this new microspraying technology is still our proven rotor/stator technology. Due to a defined rotary motion of the rotor the medium in the stator is volumetrically replaced and conveyance is created. Thus a determined amount of medium is process controlled and directed to the special low flow spray chamber.

The precise nebulization and spraying can take place continuously or punctually. The revolutionary combination of the endless piston principle and the low flow spraying chamber guarantees perfect spraying of low to high-viscosity fluids with high edge definition and lowest possible overspray.

eco-SPRAY

min. dosing quantity 50 µl volume flow 0.5 to 6.0 ml/min weight approx. 640 g

controllable round spray

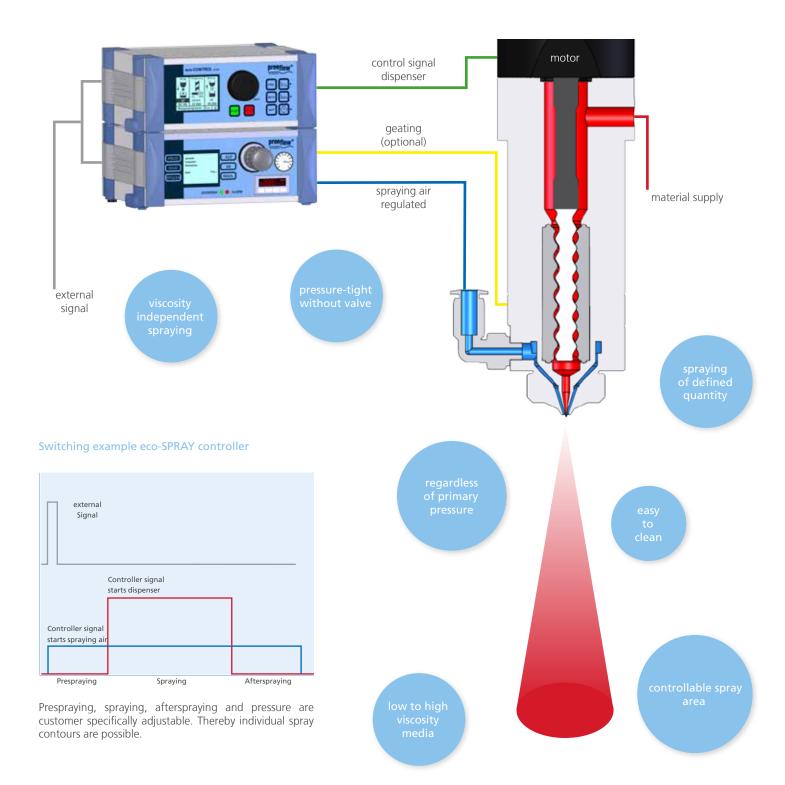
low to high viscosity spray

true volumetric spray

high precision spray

spray

presflow<sup>®</sup>eco-SPRAY



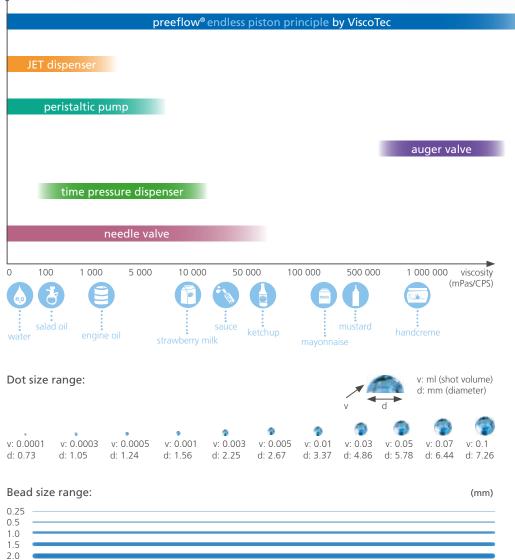
### benefits The medium is unaltered by this process. And simply by switching to reverse-flow preeflow® ensures a clean and controlled stop of material and 20 years or medium. No drips, no mess - always! technology GERMAN Technology: The dosing principle of preeflow® dispenser is based on progressive cavity pums. This special dosing geometry allows an endless and pulsation free dosing flow. The possibility of reversing the dosing flow (suckback) will prevent from dripping and leads to a perfect control of media stringing or dripping. Especially sensitive fluids with high viscosity and fillers inside experience a gentle treatment due to the low shear stress and the low pressure. Therefore, it is: many tasks - one principle!

endless

oiston principle NSIDE



#### Dosing technologies in use:



2.0 2.5 3.0

## applications in focus

max. particle size 1 mm

#### Bonding

In the industrial world, the term of Bonding refers to join securely to something else, especially by means of an adhesive or chemical substance, heat or pressure. In our case, any combination of any type and roughness of materials could be joined together through the application of adhesives. The bonding therefore replaces more traditional technics such as riveting or welding.

preeflow<sup>®</sup> products offer the ideal properties to ensure that all relevant 1 & 2 component applications in several industries are perfectly dosed!

> easy to integrate in machines

ndless piston principle inside

> high repeatability more than 99 %

#### **Optical Bonding**

Optical Bonding is a process in which a clear adhesive is applied between the layers of glass in a touch screen display. The main goal of this bonding process is to improve the performance of the display. This procedure eliminates the gap between the glass and the display. A great deal of importance is placed on dosing precision in the field of smartphone and tablet manufacturing in particular.



reversible material flow



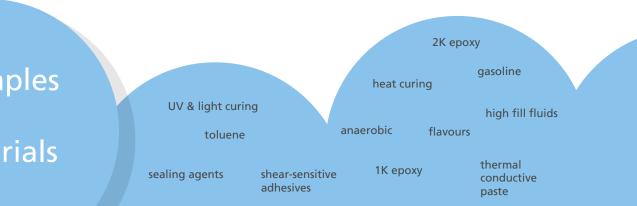
#### **Glob** Top

Glob Top potting is designed to protect sensitive components, usually semiconductor chips, from mechanical stress such as vibrations or fluctuations in temperature. External environmental factors too, like moisture or corrosion, are thus prevented from having an impact on the potted components. This effect is realised by applying a fluid resin matrix, mostly an epoxy resin adhesive, which is then cured.

#### Underfill

Underfill applications usually are used with isotropic conductive adhesives. In this case, the isotropic conductive adhesive provides the electrical connection from the microchip to the substrate. As this adhesive is not applied over the entire surface, after the thermally or UV curing process, another filling of the hollow space is necessary, the so called "Underfill".

examples of materials



short and easily accessible fluid path



#### Micro Dispensing

Micro Dispensing refers to the dosing of fluid media in volume of just a few microlitres. Other fields of application are, for example, bead dosing, sealing, dot dosing, potting and 2 component applications. These applications in particular call for high levels of precision, repeatability and reliability.



# prestiow eco-f

#### preeflow® by ViscoTec

e asy dosing technology

easy handling, easy dispensi

**e** xact, precise dosing

**e** ffective dosing

e conomic, saves up to 30% of the medium

More information: www.preeflow.com



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please contact us

