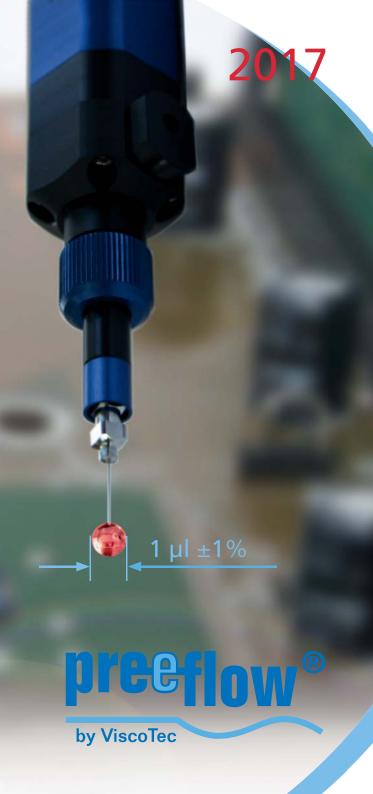
micro dispensing in perfection!



preeflow® 1K dispensers

The brand with the systematic approach. preeflow® – high-quality products ranging from control units to dispensers that live up to our vision 'small, precise, economical'.

eco-PEN300

min. dosing quantity 0.001 ml volume flow 0.12-1.48 ml/min weight approx. 380 g



eco-PEN450

min. dosing quantity 0.004 ml volume flow 0.5-6.0 ml/min weight approx. 410 g









preeflow® 1K controllers





1020

EC200-K

original sizes



precise

Precision mechanics coupled with the latest digital control – a perfect combination.

Designed to optimize your 2K process.

preeflow® – micro dispensing in perfection!



preeflow® 2K controllers



easy

fast



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

preeflow® 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.



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





spray

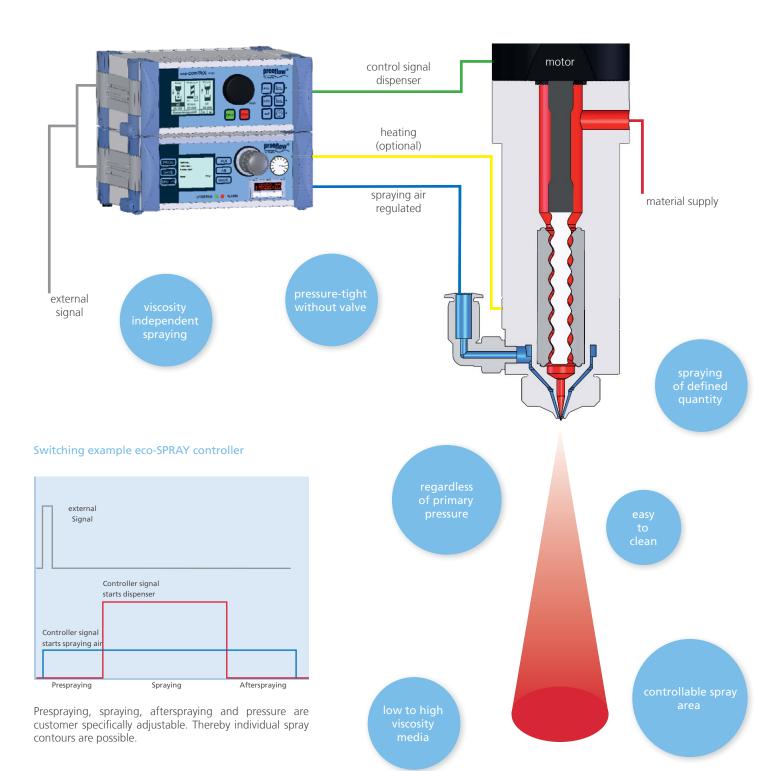
spray

spray

spray

spray

DICEFIOW eco-SPRAY



benefits and technology

The medium is unaltered by this process. And simply by switching to reverse-flow preeflow[®] ensures a clean and controlled stop of material or medium. No drips, no mess – always!

more than 20 years dispensing experience

very easy handling 100 % dosing technology

our vision always a step ahead

> world wide 24/7 support



we focus on your solution

Technology:

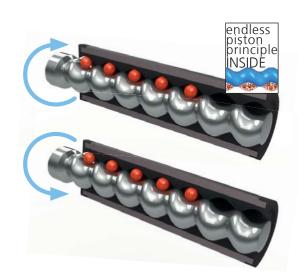
The dosing principle of preeflow® dispenser is based on progressive cavity pums.

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.

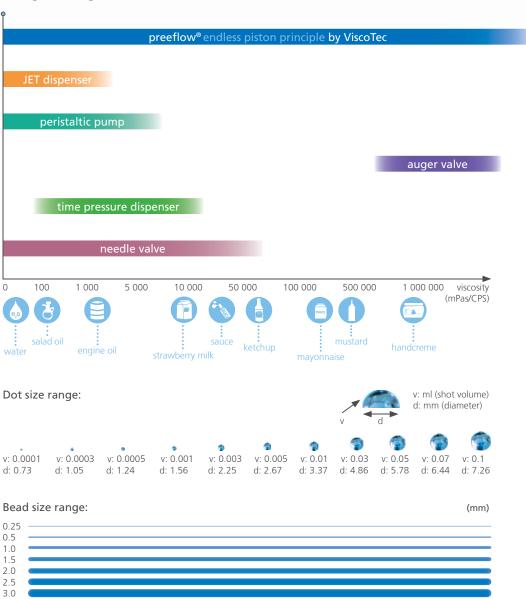
Therefore, it is: many tasks - one principle!

prooflow®





Dosing technologies in use:



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

endless piston principle inside



easy to integrate in machines





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

Conformal Coating

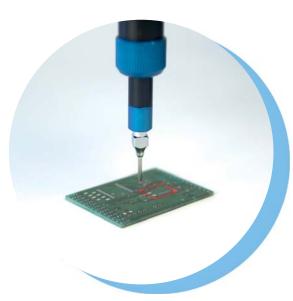
no stringing nor dripping Conformal Coating is a protective coating which takes the form of a non-transparent or transparent varnish that is applied to all or parts of PCBs. The materials are usually high viscosity thermal or UV curing materials and are dosed onto the PCB using either a thin film or a thick film procedure.



bead factor < 2 %

independent of pressure, temperature and time

> rapid dosing



very wide viscosity range

liquids containing fillers

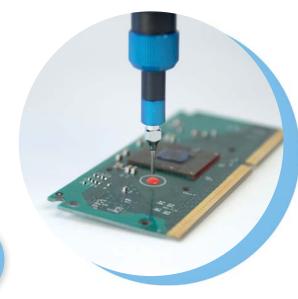
Dam & Fill

In Dam & Fill applications, the primary aim is to protect highly complex assemblies. Firstly, a high viscosity barrier, known as the "Dam", is applied to the surface to be sealed. Then the adjacent area is filled with a filler which provides protection and sealing effect.

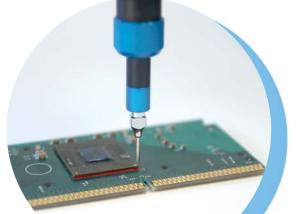


Glob Top

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".

easy to

up to per second

2K epoxy

examples of materials

UV & light curing toluene

heat curing

high fill fluids

gasoline

anaerobic flavours

1K epoxy

thermal conductive paste

sealing agents

shear-sensitive adhesives

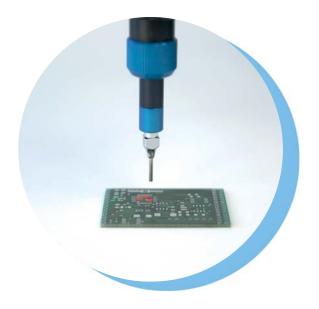
short and easily accessible fluid path

self sealing displacement system

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.

acetone





low to high viscous liquids pressure stable

Encapsulating

Encapsulating is the process of applying a fluid sealing compound to a small and defined area on a component or on a surface. The sealing compound protects the electrical component both in transports and from environmental influences such as vibration, shakes, humidity, dust and extreme temperature.

Other benefits include an improved electrical insulation, a higher safety against damage as well as a better chemical resistance.

alcohol

dosing accuracy ± 1 %

solder paste

MEK

isopropanol

silver paste

paints & inks

cosmetics & medicines

industrial oils

biotechnical suspensions

silicones

grease

brazing paste

thermal grease
primer
epoxy resin

perfume
electrolytic solutions

PU

and many more...



preeflow®

by ViscoTec

THE ORIGINAL!

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