

ECO- SPRAY



HOW IT WORKS

ViscoTec's precision volume dispenser enables applications in a wide variety of spray operations. The spray system consists of a revolutionary combination of the proven endless piston principle and a low-flow spray chamber. This guarantees perfect spraying of low to high viscosity material with high edge sharpness.

The eco-SPRAY is particularly impressive when processing highly viscous materials. The system can apply and precisely

position exact quantities independent of viscosity and input pressure. Depending on the desired layer thickness, the dose can be adjusted by simply changing either the air pressure, adhesive volume, distance to the substrate or the speed of the application. The utilization of the eco-SPRAY is intuitive. In addition, the combination of different needle diameters and supplied air caps allows individual adaptation to materials as well as to dispensing processes.



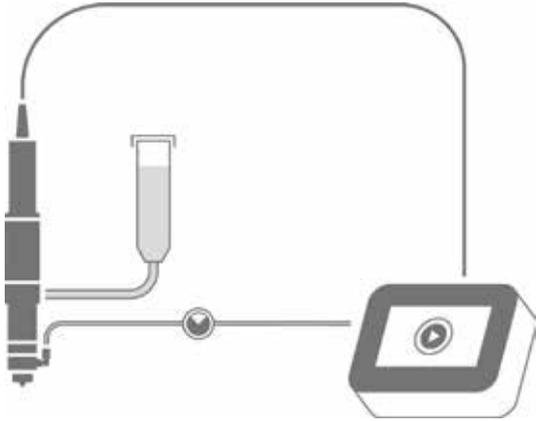
Description	eco-SPRAY
Art. No.	21448
Measurements	length 228 mm, Ø 35 mm
Weight	650 g
Spray pattern	Round jet (adjustable)
Spray angle	15 – 30 °
Viscosity	watery to pasty
Volume flow (2)	0.5 – 6.0 ml/min
Min. spray quantity	50 µl
Atomized air	0.1 – 6.0 bar
Spray accuracy (3)	± 1 %
Nozzle diameter	Ø 0.2 mm / Ø 0.3 mm / Ø 0.5 mm
Stator material	VisChem (optional VisLas)
Material inlet	G 1/8" DIN/ISO 228
Wetted parts	HD-PE / VisChem / stainless steel (optional VisLas)
Operating conditions	+ 10 °C to + 40 °C
Repeat accuracy	> 99 %

(1) Max. dispensing pressure and self-sealing decrease with decreasing viscosity, increase with increasing viscosity. Consult the manufacturer.

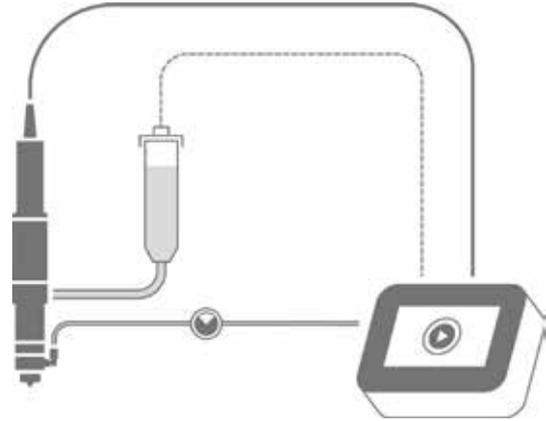
(2) Max. flow rate depends on viscosity and inlet pressure.

(3) Volumetric dispensing as absolute deviation related to one revolution of the dispenser. Depends on the viscosity of the dispensing material.

SYSTEM PRESENTATION



Self-levelling liquid, low-viscosity material

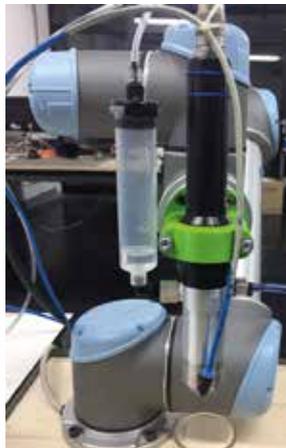


Non-self-levelling liquids, medium to high viscosity material, incl. pressure feed

APPLICATION EXAMPLE

The preeflow® eco-SPRAY has become an important element in the production of loudspeakers and headphones. The spray dispenser fulfils the most important aspects when applying a special coating, which acts as a damping layer on membranes of the loudspeakers. The damping material is applied homogeneously over the entire surface using the eco-SPRAY. Thanks to a low spray pressure of less than one bar, the spray pattern is perfectly uniform. For outstanding sound quality of the finished product.

Even materials that change their aggregate condition when the temperature rises can be sprayed automatically with the eco-SPRAY thanks to the optional integrated heating assembly. The temperature in the microspray dispenser, e.g. for wax or ethylene carbonate or other materials that change when the temperature rises, can be maintained above the melting temperature. Also perfect for high viscosity materials to enhance flowability. The supplied heating assembly cable is compatible with any standard heating controller.



TECHNICAL FEATURES

**MORE INFORMATION
CAN BE FOUND AT**



www.preeflow.com/en/products/spraydispenser/



Spraying of defined quantities



Spraying independent of viscosity



Dosage independent of input pressure



Pressure-tight without valve



Optional heating



Easy cleaning



Adjustable omnidirectional jet



Uniform spray pattern