Press Release

Filling of Liquid Powders

Low-shear handling of suspensions with an intermittent dispersing phase

Powders in the conventional sense are known as solids. Their classic manufacturing process is called Powder Compaction: Dry powders are compacted with a pounder to form a solid unit (a disc or other form). Finished products are i.e. eye shadow or blush.

However, in some manufacturing processes these powders are formulated in a liquid phase. This often results in complex fluid characteristics. The behavior is sometimes rheopex, i.e. shear-thickening over a period of time. Shear causes the solid component to compress, the liquid is extracted, and the product can therefore no longer be dosed. The solution: These rheopex fluids or liquid powders can be dosed using a low-shear dosing method. The ViscoTec endless piston principle is particularly advantageous for this application. It allows continuous and low-pulsation dosing and filling.

After the actual dosing process, the intermittent dispersing phase is evaporated - the suspended solids form a solid structure. In this way, color gradients can be achieved in addition to shapes, such as lettering or patterns. Different products can also be combined.

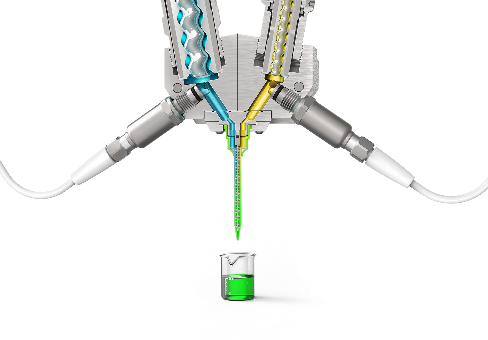
The ViscoDuo VM HD, a 2-component Hygienic Dispenser, is used to combine different products. The mixing ratio of two material components can thus be flexibly adjusted.

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Pictures:



*By using a low-shear dosing method, such as the ViscoTec endless piston principle, it is possible to fill rheopex fluids or liquid powders.*

2-component filling pump ViscoDuo VM HD

ViscoTec – Perfectly dosed!

ViscoTec Pumpen- u. Dosiertechnik GmbH manufactures systems required for conveying, dosing, applying, filling, and emptying medium to high-viscosity fluids. The headquarter is in Töging a. Inn (Bavaria). ViscoTec has subsidiaries in the USA, in China, Singapore, India and in France and employs about 270 people worldwide. Numerous sales partners all over the world complete the international distribution network. Next to technically sophisticated solutions to even the most complicated application, ViscoTec is the single point of contact to deliver all components for a complete system: From emptying to preparing and to dosing. This guarantees successful interaction of all components. All fluids showing a viscosity of up to 7.000.000 mPas can be conveyed and dosed almost pulsation-free and with extremely low shear. ViscoTec offers comprehensive consulting for every application and, if required, extensive tests will be carried out in close cooperation with the customer. The dosing pumps and systems are perfectly adapted to their respective application whether it is the food sector, the e-mobility industry, the aerospace field, the medical technology, the pharmaceutical industry, or many other branches.

Press contact:

Melanie Hintereder, Marketing

Phone: +49 8631 9274-404

melanie.hintereder@viscotec.de

**ViscoTec America Inc.**1955 Vaughn Road, Suite 209 | Kennesaw, GA 30144 | USA  
www.viscotec-america.com

**ViscoTec Asia Pte Ltd**7 Gambas Crescent | #09-38, Ark @ Gambas | Singapore 757087 | Singapore  
www.viscotec-asia.com

**ViscoTec Shanghai Ltd. / Greater China**1/F, BLK 18, City of Elite | No. 1000 Jin Hai Road, Pudong  
Shanghai, 201206 | P.R. China

www.viscotec.com.cn

**ViscoTec India Pvt. Ltd.**  
710 Nucleus Mall, 1 Church Road Pune | Pune 411001 | India  
www.viscotec-india.com

**ViscoTec France SASU**  
5 Avenue Henri Becquerel, Parc Activité Kennedy | 33700 Mérignac | France  
www.viscotec.fr