

SAFE HANDLING ADHESIVE AND FLAMMABLE DUSTS

Certain industrial production processes generate dusts that can be sticky or flammable. In such applications, which have requirements for a safe dust separation, filter systems are required. Sticky particles can irreversibly clog filter media. Flammable dusts increase the risk of fire in dedusting systems.

The metered addition of suitable additives into the filtration process can both reduce the risk of the filter media sticking together and reduce the flammability of dust.

PRODUCT DESCRIPTION

Herding® MULTICOATER 55/1 und Herding® MULTICOATER 250/1-4 are pneumatically operated dosing devices for the quantity-controlled addition of additives into the filtration process.

Normally, the filter aids are precoat material which is used to protect the filter elements. The dispersed and adsorptive substances support the removal of liquid and gaseous components from the exhaust air.



Fig. 1: Herding® MULTICOATER 55/1

THE PROCEDURES

PRECOATING // The addition of an additive prevents the sticky, moist and oily dusts and vapours from coming into direct contact with the surface of the filter media and thus preventing them from sticking together.

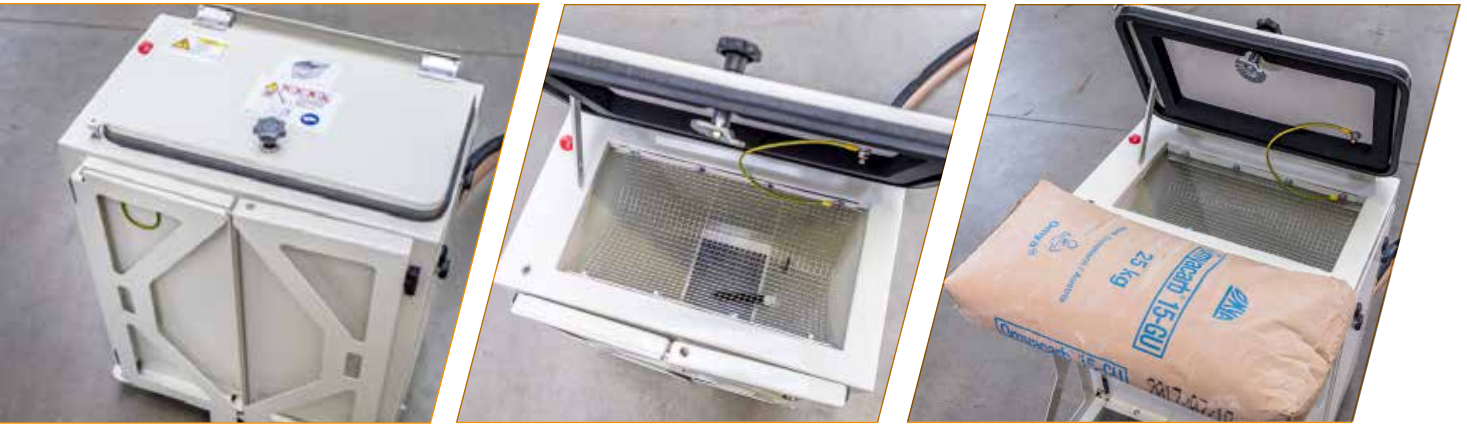
PASSIVATION // The addition of an additive reduces the flammability of dust. The required mixing ratio of flammable dust to additive depends on the dust properties.



Fig. 2: Passivation by addition of additives

Herding® MULTICOATER

Pneumatically operated dosing device



TECHNICAL FEATURES

- » MCI 55/1 with a capacity of 55 l for the supply of one filter system
- » MCI 250/1-4 with a capacity of 250 l for the supply of up to four filter systems
- » MCI 55/1 und MCI 250/1-4 with injector conveyor for conveying lengths up to 10 m
- » MCD 250/1-4 with double diaphragm pump for delivery lengths up to 50 m
- » Compact storage container including control and conveyor technology
- » Fluidization to loosen up the additive
- » Manual filling from above via housing cover; optional automatic filling via Big-Bag station
- » Integrated suction to reduce dust generation during manual filling
- » With monitoring (level switches) for additive level and compressed air supply
- » Integrated basket trap in the loading opening to protect against the ingress of paper or plastic shreds
- » Control with Herding® MP12 or PLC possible
- » Installation options: Mobile or stationary
- » Easy installation (plug and play)

THE ADVANTAGES

- » Increased process reliability
- » Long service life of the filter elements
- » Mobile on wheels
- » Simple installation
- » Dust-free filling
- » Reduction of fire hazard

APPLICATIONS

Laser cutting, laser welding, plastic cutting, wet paint separation, blasting, spring grinding, etc.

Our competent sales engineers will be happy to advise you on your individual application!

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FILTERTECHNIK

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