

Aeromatic Aalborg ApS specialises in the production of perforated rubber hoses to be used for powder fluidisation and water oxygenation. The company also functions as consultant and contracting partner on the installation of fluidisation systems in powder silos and powder/cement cargo ships, as well as the installation of aeration and oxygenation systems for lakes, fish farms, and treatment plants.



**Cement Carrier with Aeromatic hoses in Cargo hold**

**Avoid leftover material or bridging in the silo**

The principle of an Aeromatic system is that Aeromatic hoses with special perforations have been fixed on the bottom or on the side of the silo to air the cargo/material in the silo using compressed air of about 2 to 4 bar.

**Bottom of silo**

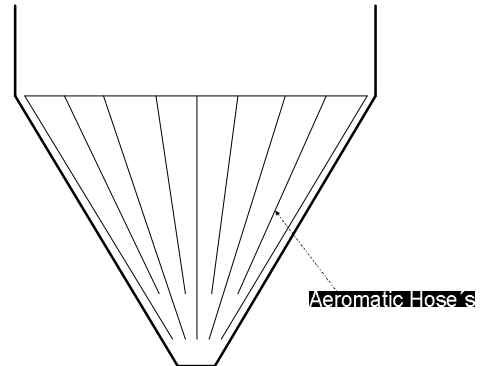
Materials in the cone at the bottom of the silo which is hard to remove due to the so called 'rat hole effect' is loosened effectively so that leftover material in the silo is avoided.

**Sides of silo**

By mounting Aeromatic hoses on the side of the silo, bridging in the silo is effectively avoided so that the dangerous work of cleaning the sides is avoided.

**Reduction of slope of the cone of the silo**

In addition the cone of the silo can be reduced from the normal 60 degrees to 15-20 degrees which naturally gives additional volume in the same space. In principle the cone can be done away with but this depends on how steep a gradient for emptying is needed and how frequent material needs to be changed in the silo.



**Avoiding blockage of powder material in pipes and bends**

The photograph shows Aeromatic hoses inside unloading pipes on a ship with manual adjustable aeration to optimise the voiding rate and unloading capacity as well as preventing blockage in the pipes (hoses shown in yellow).



**Scope for use of hoses**

Limestone, cement, ash, wood chips, flour, fish meal (bone), feeding stuffs and similar.

Temperatures; -20 to +120 degrees Celsius, working pressure up to 20 bar.

Perforation from 1000 to 8000 holes per metre.

All tubes can be delivered with outside diameter from 14 to 30mm.

All lengths can be supplied from 1 metre to several kilometres

Telephone for further technical information.