

Versatile application technology – nebulisation¹ for sustainable storage of grains

Short summary for practitioners:

INTRODUCTION

European storage operators face difficulties to combine the current available management methods and techniques, and therefore further research is needed on new substances and alternative technologies. By developing an innovative application technique with two products applied at different doses, the project's partner SOJAM aims to improve the quality of the nebulisation and the precision of the dosage for Plant Protection Products. This constitutes major advances in the field of insecticide treatment on cereals.

RESEARCH FOCUS

For simultaneous application of a larvicide with adulticides in order to gain a better and longer control, a new, versatile dual-channel spraying system is being developed to let the two products be used through separate nozzles. This has as main benefit that there is no need for mixing the two different formulations in a common tank, which ensures proper dosing and penetration of the active substances of the formulations. Moreover, any problems and risks regarding mixing different formulations are avoided when it is possible to operate from completely separated application systems. The equipment is designed in such a way that it can be installed and used in all types of systems. It will be a transportable device, easy to mount (sprayheads on top of a conveyor belt), equipped with adjustable nozzles, easy in operation and cleaning.

¹ Nebulisation - converting a liquid into a mist or fine spray