



Mida

ADD 409 AG

Multienzymatic additive

DESCRIPTION AND APPLICATION

MIDA ADD 409 AG is a liquid additive containing a combination of enzymes for removal of organic contamination, including bacterial biofilms. **MIDA ADD 409 AG** is used in combination with alkaline foaming or non-foaming products to achieve optimal pH and enhance cleaning performance.

MIDA ADD 409 AG contains a mixture of stabilized enzymes such as lipase, protease, amylase and others, which effectively break down components of organic contaminants like food residues or biofilm matrix.

Biofilms consist of agrupations of microorganisms adhered to surfaces and embeded in a polymeric matrix that protects the microorganisms from external adverse conditions, including cleaning and disinfection procedures. For this reason, presence of biofilms is a potential risk for food safety and quality and requires specific remediation procedures. The external biofilm matrix is composed of a complex mix of bacteria-generated polymers such as carbohydrates, proteins or DNA, requiring specialized products and cleaning procedures for their removal. The use of **MIDA ADD 409 AG** in combination with appropriate alkaline detergenges can destroy the components of the biofilm matrix and contribute to removal of biofilms from contaminated surfaces as part of a specific biofilm removal procedure that includes the use of suitable disinfectants for complete microorganism inactivation.

INSTRUCTIONS OF USE

MIDA ADD 409 AG is used at concentrations between 0,2% and 0,5% (w/w), in combination with an alkaline detergent dosed at a concentrations that adjust the pH to 10 - 10,5. Recommended use temperature is between 40 °C and 60 °C, with variable contact time depending on the type of residue to be removed.

PRODUCT CHARACTERISTICS

Main ingredients	Bend of enzymes, stabilizer
Visual aspect	Pale yellow liquid
Odour	Characteristic of the product
pH (1% at 20 °C)	5,5 ± 0,5
Specific weight (at 20°C)	± 1.040 g/mL

The values provided in the table do not constitute technical specifications.

