



# Einar®



## Einar® coating additives for expandable polystyrene (EPS)

- Einar® 501 is a fine-powdered high quality, sustainable anti-stat
- Einar® 511 is a fine powdered cooling time enhancer
- Einar® coating additives are free-flowing powders with high coating efficiency

### Application background

Expandable polystyrene (EPS) is a lightweight, strong product that offers very good thermal insulation, making it ideal for the packaging and construction industry. It is used for a very diverse range of applications including trays, cups plates and fish boxes.

EPS will need a basic formulation of coating additives in order to function efficiently during handling and processing of EPS beads in to final moulded products. GMS, GTS and metal stearates such as Zn- or Mg-stearate make up a very common combination of coating additives that secures anti-stat protection, improvement of flow properties during processing and pre-expansion and secures better and faster cooling of moulded parts.

# Einar coating additives for expandable polystyrene (EPS)

## Einar® coating additives

Einar® 501 is an efficient vegetable-based anti-stat that will help improve flow properties of EPS beads during storage, transportation and through the pre-expansion step. Einar® 501 is a fine powder with excellent coating properties. The recommended use level is 0.1 - 0.6% depending on EPS bead size. Smaller beads require higher concentrations due to a higher specific surface area.

Einar® 511 is a cooling time enhancer and will help reduce cycle times in the moulding process. Einar® 511 is a very fine powder and has high coating efficiency and should be used at loading levels of 0.1 - 0.4% to obtain the best performance on cooling time.

## Einar® coating additive blends

Blends offer a very convenient way to apply EPS coatings. It is an all-in-one solution where there is no need to handle several different individual products. The complete coating formulation is an easy-to-use pre-blended formulation offering easy dosing and accuracy, better and faster handling and options for additive inventory optimization.

With blends such as Einar® 531 and Einar® 533 manufacturers get the double effect of both cooling time enhancers and anti-static additives. The ratio of the blends is based on industry standards offering maximum effect.

Blends such as Einar® 543 and Einar® 544 offer a very convenient way to apply EPS coatings. These all-in-one solutions, complete with zinc stearate, eliminates the need to handle several different individual products. The complete coating formulation is an easy-to-use pre-blended formulation offering easy dosing and accuracy, better and faster handling and options for additive inventory optimization.

## Your direct benefits:

- Einar® 501: Efficient anti-stat protection
- Einar® 511: Efficient cooling time enhancer
- Fine powders with high coating efficiency
- Easy to use coating blends
- Approved for food contact
- Consultancy and technical evaluations available from our technical team

## Other offerings from the Einar® range:

- Einar® 601 for anti-static performance in PE applications
- Einar® 601 and Einar® 207 anti-stats and ageing modifiers for PE and PP foam
- Einar® 618, Einar® 611 and Einar® 211 for anti-fogging in PE applications

Contact us and let us help you develop and test the optimum solutions for your EPS coating additives.

Find out more at [polymers.palsgaard.com](https://polymers.palsgaard.com)