

Press Release

A highly attractive choice: insulbar ESP for an optimized paintwork result

The insulating profile made of electrostatically modified material ensures improved attraction of paint particles during powder coating of the aluminium window assembly

Perfect painting results for the metal frames used in windows, doors and facades require the use of ultrafine powder particles. If electrostatically charged, they adhere to surfaces charged with the opposite polarity during application, forming a paint layer after curing. However, the challenge here is to ensure an even coating of materials with different conductivity levels, where for instance the outer and inner shells of a metal frame are joined to an insulating bar made of plastic.

Plastics specialist Ensinger has developed its insulbar ESP insulating profile made of electrostatically optimized material specifically for what is known as "coating in the finished assembly". The plastic TECATHERM 66 ESP attracts the paint particles more effectively than conventional less conductive polyamide, so ensuring a more even paint layer. Particularly in the case of metal constructions with visible thermal insulating profiles, and when working with non-standard solutions whose design makes them difficult to coat, insulbar ESP ensures excellent optical appeal and quality.

Optimized for coating in the finished assembly

"For our customers, the facility for coating in the finished assembly means considerable process and cost optimization", explains Frank

Killingier, Head of Sales for insulbar at Ensinger. "Time-consuming and expensive additional work steps such as foil covering of already painted aluminium shells to protect the surfaces during manufacture of the assembly are no longer necessary. Any optional quantity of assembled profiles can now be produced in advance, with colour selection and painting taking place at a later date. This simplifies stocking and at the same time guarantees maximum colour diversity".

To allow optimum paint adhesion, Ensinger offers insulbar ESP insulating profiles which have been additionally dust blasted. Dust blasting increases the surface tension to around 70 mN/m by roughening. As a comparison: Conventional polyamide 66 profiles have a surface tension of around 30 mN/m, while for reliable paint adhesion the recommended surface tension is over 50 mN/m.

Like all other insulbar insulating profiles, insulbar ESP profiles are capable of withstanding curing processes of up to an object temperature of 200°C without damage.

For more information, go to the website: www.insulbar.de/en

(2,573 characters including spaces)

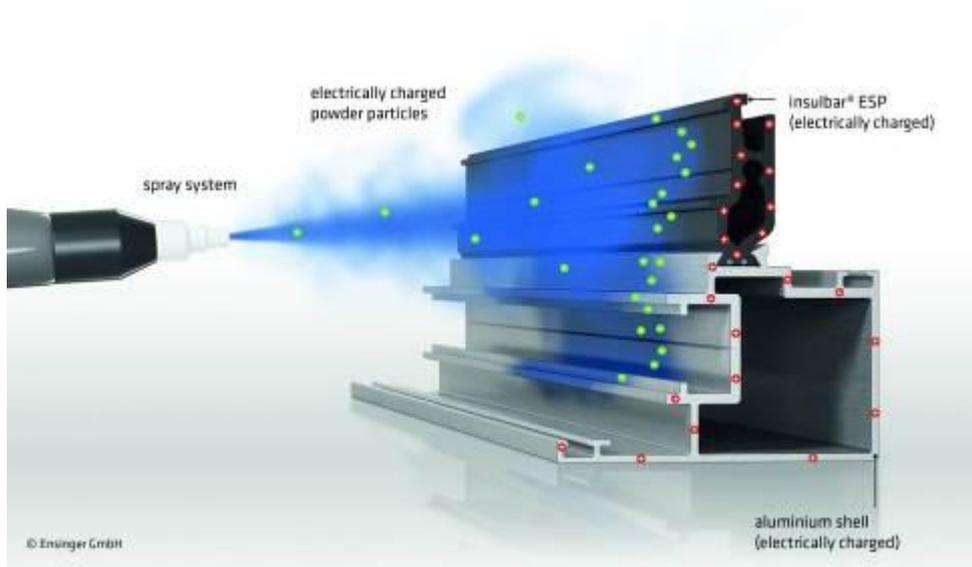


Fig. 1: During powder coating, the electrically charged paint particles are attached by the electrostatically modified insulbar ESP insulating profile. Even when working with ready assembled profiles which are difficult to coat with only a metal shell, this ensures an even powder coating.

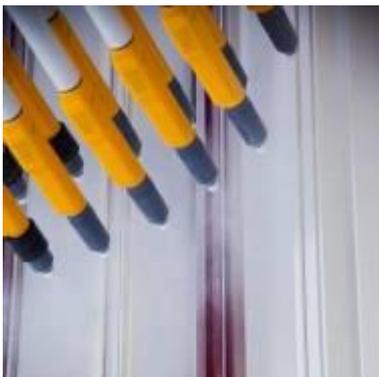


Fig. 2: Spraying the electrically charged paint powder on a window frame profile. (Pictures courtesy of: WICONA)



Fig. 3: Painted assembled profile with insulbar ESP thermal insulating bar: Where insulating profiles are visible, a perfect paintwork finish is particularly important.



Fig. 4: Dust blasting the insulbar ESP insulating profile - recognizable by its matt, slightly roughened surface - increases the surface tension of the polyamide bar, guaranteeing durable paint adhesion.

Picture caption: Ensinger GmbH

In high quality: [Download ZIP](#) and press.info@oha-communication.com

About insulbar

Ensinger GmbH is among the world's leading developers and producers of insulating profiles for window, door and facade construction. The profiles marketed under the brand name insulbar[®] create a thermal separation between the inside and outside shells of metal frames. Insulation systems using insulbar profiles achieve optimum values in terms of energy savings and cutting the cost of heating and cooling. At the same time, insulbar profiles comply with the most stringent quality standards in every respect. They have been in successful operation around the world for over 30 years. For more information, go to www.insulbar.de/en.

About Ensinger

The Ensinger group is engaged in the development, manufacture and sale of compounds, semi-finished materials, profiles and technical parts made of engineering and high-performance plastic. Ensinger makes use of a number of different manufacturing methods, in particular extrusion, machining and injection moulding. Employing a total workforce of 2,200 in 27 locations, the family firm is represented in all the important industrial regions of the world with its own production plants or sales branches. For more information, go to www.ensinger-online.com.

Press contact and additional information:

Ensinger GmbH
Karin Skrodzki
Press and PR Office insulbar
Rudolf-Diesel-Str. 8 • 71154 Nufringen
Tel.: +49 7032 819 -674 • E-Mail: k.skrodzki@de.ensinger-online.com
Internet: www.insulbar.de/en

Agency contact:

oha communication
Oliver Frederik Hahr
Auf dem Haigst 23 • 70597 Stuttgart • Germany
Tel.: +49 711 5088 65821 • E-Mail: oliver.hahr@oha-communication.com
Internet: www.oha-communication.com