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PRESS RELEASE

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insulbar with ESPOC: high-quality coating for insulating profiles

Ensinger to present award-winning product at BAU 2025

Ensinger has developed a new technical solution for the powder coating of insulbar window and door profiles. The innovative ESPOC technology (Electrostatic Potential Optimized Coating) is based on a thin, electrically conductive layer which can be applied both to standard insulating profiles and customised profile designs.

Regardless of the moisture content of the profiles treated with ESPOC, the electrostatic attraction of the powder remains at constantly high level during the coating process. As a result, optimum coating can be achieved even on dry profiles, and the “blistering effect” can be eliminated. “By preventing the formation of bubbles in the coating process, the quality of the finish on window and door profiles can be significantly improved”, explains Matthias Rothfuss, Head of insulbar Application Engineering, Product Management & Marketing. “With the ESPOC method, both aluminium-plastic assembled profiles and individual polyamide insulating bars can be optimally coated, resulting in an outstanding appearance in both cases.”

The coating is based on an innovative technology and stands out for its chemically stable, firmly adhering surface. This characteristic permits the uniform powder coating even of complex geometries such as protrusions and undercuts.

The recyclability of the plastic profile material is not negatively affected by the coating. Hence the technology combines a high-quality look and technical functionality with environmental compatibility and sustainability.

In October, Ensinger received the Cham district’s innovation award in recognition of its development of ESPOC technology, for which a patent application has been filed.

Ensinger at BAU 2025

Visitors to the leading international trade fair BAU (Munich, 13 -17 January 2025) can find Ensinger in Hall B1. At Stand 438, the insulbar business division will be presenting the ESPOC technology and additional innovations for the window and door market.

More information:

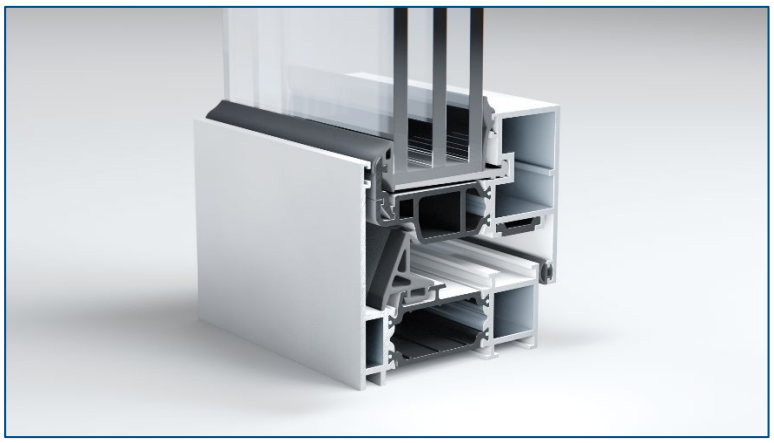
insulbar.com / bau-muenchen.com

The **Ensinger** Group is engaged in the development, manufacture and sale of compounds, semi-finished materials, composites, technical parts and profiles made of engineering and high-performance plastics. To process the thermoplastic polymers, Ensinger uses a wide range of production techniques, such as extrusion, machining, injection moulding, casting, sintering and pressing. With a total of 2,700 employees at 34 locations, the family-owned enterprise is represented worldwide in all major industrial regions with manufacturing facilities or sales offices.

ensingerplastics.com

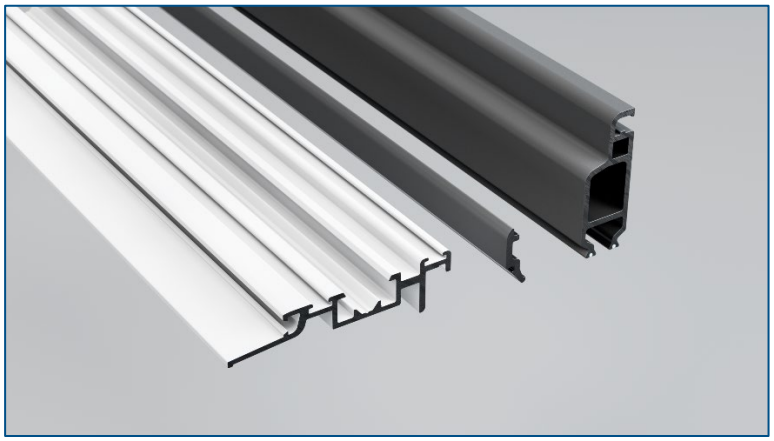
Ensinger GmbH is one of the world's leading developers and producers of thermal insulating profiles for window, door and facade construction. The profiles marketed under the brand name **insulbar**® create a thermal barrier between the inner and outer shells of metal frames. Insulation solutions using insulbar® profiles achieve the best values in terms of energy saving and reduced heating and air conditioning costs, while complying with the most stringent quality standards in every respect. They have been in successful application the world for more than forty years.

insulbar.com



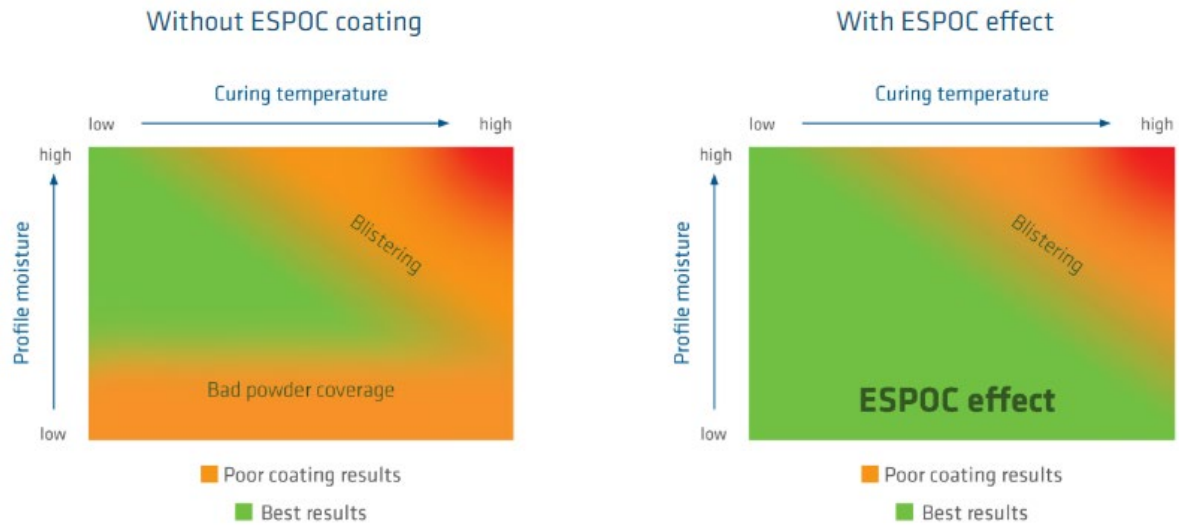
Picture caption (Image: Ensinger):

Metal window assembly with coated insulbar profiles. Even with complex geometries, ESPOC enables perfect coating results.



Picture caption (Image: Ensinger):

The energy-efficient insulbar insulating profiles satisfy the increasing demands placed on architectural design, even when it comes to fine details. The ESPOC technology permits uniform powder coating – regardless of the profile's shape.



Picture caption (Chart: Ensinger):

Regardless of the moisture content of the profiles treated with ESPOC, the attraction of the powder remains at a constantly high level during the coating process. An optimum coating result can be achieved even with dry profiles and the "blistering effect" (formation of bubbles in the coating process) can be eliminated.

Picture caption (Photo: Landratsamt Cham):

Recognition for insulbar with ESPOC at Roding municipal hall. Ensinger received the Cham district's innovation award for its development of this new technology.

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