



### What is Fusion technology?

The basis for AdCoat and AdSil is the Fusion technology; a specialised continuation of the sol-gel procedure. The Fusion technology: a chemical connection ('fusion') occurs between the surface and the coating. This is enabled by the property of the coating material, the chemical structure of which is very similar to the chemical structure of the corresponding surfaces. The base and the coating therefore undergo a real, covalent chemical connection: the surface and the coating are fused on a molecular level to form an inorganic polymer network.

Using our fusion technology-based coatings it is possible to save several application steps: on concrete, for example, no deep primer is generally required. The surface that is to be coated need only be free of dust, grease, and oil. Coarse unevenness and cracks need to be removed first with a preliminary treatment.

### What makes Fusion technology coatings so unique?

The coatings that our partners have developed allow your product to perform better against its competitors because they not only improve its surface properties but rather optimise them in the long term. Strictly speaking they are not just coatings in the traditional sense, they are more than that: the Fusion technology ensures a fusion-like connection on a molecular level between the coating and the base. Similar chemical structures are created within the coating that are already present in the base material that is to be coated. The key to the permanent stability of a coated surface lies both in the durability of the coating itself and in its optimum connection with the material to be coated. The decisive advantage of the Fusion technology lies in the optimisation of both components.

Fusion technology coatings are also more environmentally friendly than traditional products while remaining just as easy to handle and, in some cases, even easier to process than conventional coatings. It is possible in many cases to substitute conventional multi-layer systems with just one layer, which leads to a significant reduction in material consumption and also substantially reduces the application times.

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