

INNOVATIVE SURFACE SYSTEMS

FROM IDEA
TO REALITY

CREATE
THE
DIFFERENCE



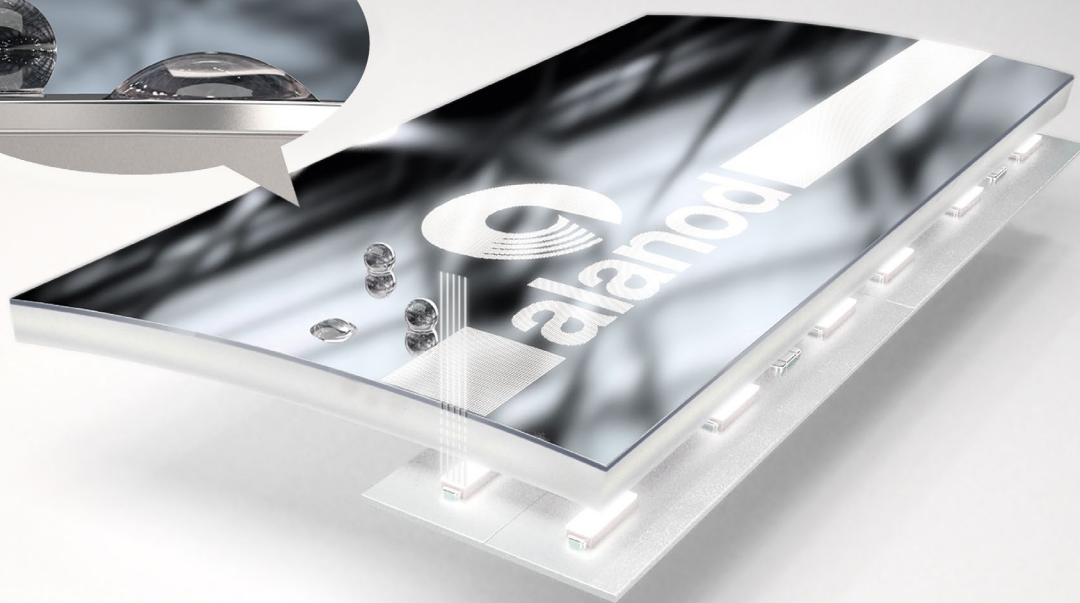
System development

Surfaces with a competitive edge

Whether it's a smartphone, washing machine, car interior or espresso machine; today, more than ever, products need to stand out from the competition and excite emotions. You have to enjoy looking at them, want to touch them and experience their quality and feel.

Alanod's system development department creates innovative surfaces on real aluminium that are specially tailored to your requirements – ranging from functional through to decorative aspects. With these unique surfaces, you can stand out from your competitors and give your products a distinctive appearance.

Benefit from our expertise, our long-standing network of system partners and a wide variety of finishing technologies.

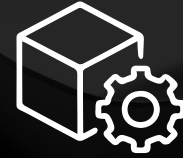


One example of a special combination of capabilities in one surface: micro-perforated, backlit and printable.



Idea

We start by jointly conceiving the approach to a new module that will set your product apart from others.



Product development

Working together in a network with partners, we develop the form and functions, including the manufacturing process.



Optimisation in stages

If application tests show that there is still room for improvement, we further optimise the entire package.



System partners

Highly experienced specialists in specific technologies produce prototypes for testing purposes.



Process development

We define the processes for series production with repeatable results and qualities.



New product

Your idea has become reality. The customised surface gives you a unique position in the market.



Innovative surface systems

Highlights from our system development

Formable coating surfaces

Coatings tend to be either hard and then too brittle for forming, or they are elastic enough for forming, but then provide little protection for the surface. Alanod develops lacquered aluminium surfaces that are robust and yet suitable for forming.

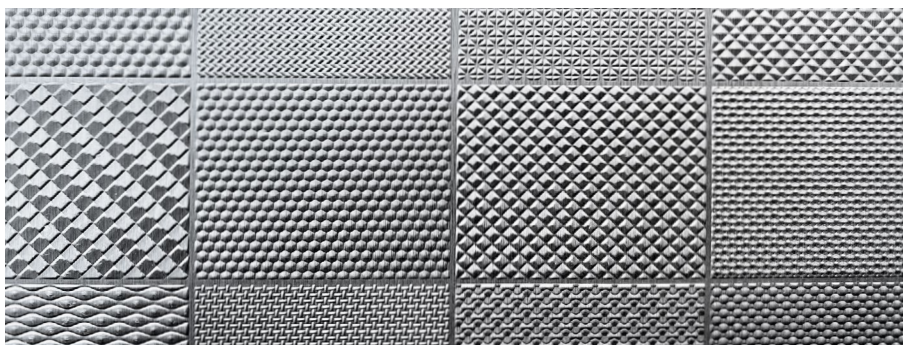
Although the material "flows" during forming, the scratch resistance of the surface is maintained.

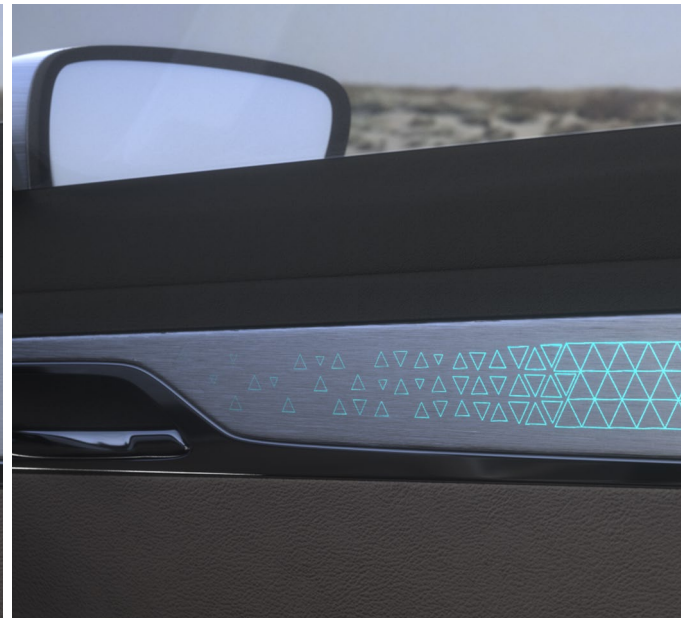


Grained surfaces

Stone, leather, wood, bark: structures evoke memories and impressions of natural surfaces. With Alanod's grained structures, you can define a surface that we reproduce in real aluminium. This creates high-quality accentuated surfaces, e.g. for household appliances or car cockpits and storage compartments.

Whether fine or coarse, regular or random: structures make the material more lively.





Microperforation with backlighting

What appears at first glance to be a sophisticated metal surface suddenly becomes a decorative highlight when backlit. Microperforations like these using innovative laser technology open up completely new applications and possibilities for you.

The full effect of the fascinating surface design is only revealed when the backlighting is switched on.

Co-extrusion and back injection

Thanks to the extrusion process, Alanod surfaces can be bonded and formed with plastics. These products can be manufactured particularly economically and help to reduce the weight of components.

Because of their mechanical properties, Alanod surfaces can be back-injected. This means they can contribute to weight reduction and allow novel functions to be integrated.



Care for the Environment

Conserving natural resources has been part of our corporate philosophy ever since our company was founded in 1975. Today, Alanod is a climate-neutral, sustainably run company. Due to the excellent recycling properties of aluminium, our materials use up to 90% recycled aluminium. This consumes up to 95% less energy compared to primary aluminium production.

Our cutting-edge post-combustion technology enables production of all of our materials without the need for excessive energy input. All our electricity needs are met using “100% green” energy sources.



Made in Germany

Our high-tech materials are all manufactured at our sites in Germany.

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