PLADUR® PERFECTS
COMMERCIAL VEHICLES

A special class of surface-refined flat-steel products for the commercial vehicle industry.
PLADUR®
AVAILABLE IN COATINGS FOR ANY USE.
As one of the world’s leading steel manufacturers, we see producing and marketing trendsetting materials as part of our day-to-day business. To do so, our expert and dedicated staff members draw on the vast resources of ThyssenKrupp Steel Europe: innovative capacity, cutting-edge technologies, and a wealth of experience based on a long and outstanding tradition.

One of our exceptional products is PLADUR®: organic, band-coated, high-quality flat steel suitable for any conceivable solution.

Discover the virtually unlimited possibilities of PLADUR®. On the following pages, you’ll find insights into specific applications in the commercial vehicle industry.
A nature-based product, refined with a sense of responsibility.

Environmental responsibility in thought and action is a core commitment of ThyssenKrupp Steel Europe. This is reflected in the product world of PLADUR® in various ways. Even our steel production is resource efficient, with only around one-third of the primary energy consumption required for aluminum. Our systems for band coating are also designed to include wastewater treatment and flue gas cleaning processes that reduce emissions to well below legal limits.

For the corrosion protection, PLADUR® uses zinc-magnesium in place of conventional galvanizing. This drastically reduces consumption of zinc, a raw material available in limited amounts only. At the same time, our process offers even better corrosion resistance. In addition, we of course use no chromate in pretreatment and we reject ingredients that are critical for health and the environment in all processes.

In place of pigments containing heavy metals, for example, we use environmentally responsible alternatives with no loss in material quality.

A prime example of environmental responsibility in action is the ReflectionsOne® color collection, which is ideal for using PLADUR® in color schemes that blend in harmoniously in natural or built environments.

From environmentally friendly production to the outstanding visual appeal of PLADUR® solutions, we at ThyssenKrupp Steel Europe take a holistic approach to fulfilling economical and ecological demands.

High-quality flat steel and high-quality organic coatings add up to an endless number of outstanding options – especially when PLADUR® composite materials from ThyssenKrupp Steel Europe are involved.

At the center of our production process is our steel, which stands out for its pronounced strength and plasticity, alongside our zinc-magnesium coating ZM EcoProtect®. It ensures excellent corrosion protection and even allows a reduction in coating mass while still delivering superior corrosion resistance.

Our organic coatings are the key to the immeasurable diversity of PLADUR®, a huge range of options that have been fulfilling and surpassing the most varied requirements, demands, and wishes in many different industries and segments for decades.

Whether paint, film, or combinations of both coatings, there is simply nothing PLADUR® can’t offer. Almost all colors, including shades of the RAL or NCS spectrums, are just as easy to realize as different degrees of gloss, from matte to shiny. High-quality metallic surfaces or even highly distinctive glittering finishes are also possible.

Textured surfaces that imitate natural materials like stone or wood are a further strength of PLADUR®. In short, PLADUR® gives you full freedom of design, enabling you to realize your projects in line with your decorative and aesthetic ideas.

You are also free to first complete the surface of PLADUR® before using the material to construct your final object. Finish first, fabricate later – this approach can often be more economical than, for example, subsequently painting individual elements. Also worth mentioning is the fact that you can easily shape PLADUR® without formation of cracks.
Made in Germany

looks like new even after extended periods

increases value

OF LASTING VALUE
Two outstanding strengths of PLADUR®: preserving value, increasing value.

Germany, by the most experienced coil coater – you get even more: objects and creations with intrinsic value for many years to come. Our exclusive metallic finishes like copper, titanium, or stainless steel, for example, are resistant to fingerprints and look like new after long periods of use. This is why objects and constructions built with PLADUR® are not only easy to maintain, but may even increase in value.

PLADUR® has proven this point many times with its familiar materials in everyday use. But you can also count on our new surface refinements. We not only stand behind them with our trusted name, we also put them through punishing tests. That means each of our products has to prove itself before it gets the chance to convince you in everyday use under the name PLADUR®.

Completely reliable functionality is the top priority of PLADUR®. This means consistently ensuring the material’s stability, resistance, and robustness – the reasons PLADUR® remains in good condition even after many years or even decades. Its attractive appearance over the long term makes a considerable contribution to your object’s durability and value appreciation. With these proven material properties – qualities of the highest order, made in
The higher the demands, the better PLADUR®.

PLADUR® offers a broad portfolio of efficient, high-quality materials that meet the specific construction needs of diverse commercial and utility vehicles – from refrigerated trailers, tarp, or dry trailers to agricultural vehicles, trailers, and tractor units, etc., the material enables engineers, developers, and designers to realize vehicles completely in keeping with the required internal material qualities and their exterior design ideas. Whether you need material for trailers and their outer skin, chassis, interior fittings, extensions, or spare parts, PLADUR® in its three quality classes ensures that you can find the perfect PLADUR® for every application and every requirement.

THREE STAR

The quality class that convinces with top scores on almost all points.
QUALITIES

ONE STAR

The quality class that stands out for its excellent price-performance ratio.

QUALITIES

TWO STAR

The quality class that shines in specific categories with improved performance features.
PLADUR® meets a wide range of commercial vehicle needs.
Commercial vehicles are an investment. The costs must be manageable, yet the vehicles should stand out for their perfect functionality and performance – day in, day out.

Good to know: PLADUR® can meet and surpass these demands. In the ONESTAR® quality class, PLADUR® offers you a high-quality and easy-to-process material at a very competitive price. The surface-refined flat steel is equipped with all of the special properties commercial and utility vehicles call for. It protects well against corrosion and UV radiation and is resistant to road salt, friction, scratches, dirt pick-up, and wear. But equally important to users in the industry: PLADUR® can be shaped into the most unconventional forms and is easy to join, glue, and repaint – with no loss in stability.
Always good to go – even in the face of rock chips, storms, and stress.

In the freezing cold or glaring heat, through rough terrain, fields, and forests – whatever increased stresses the task involves, commercial and utility vehicles must stand the test. With material that can take the strain and more. PLADUR® is ready and willing to take on the challenge: with the quality class TWOSTAR**, you get more of everything. Of course, this includes increased protection against corrosion and UV radiation. TWOSTAR** also fends off rock chips, branches, scratches, dirt, and grime with increased wear resistance. These qualities are complemented by visually appealing surfaces – good to know when appearances really count.

On top of all these important properties, of course you can count on PLADUR® for easy processing and trouble-free adhesion.
Endlessly uncompromising.

For the commercial and utility vehicles that place the highest demands on the material qualities, PLADUR® is the only choice. And where nothing but the best in resistance to exposure and wear is called for, the choice is our unsurpassed THREESTAR*** quality class. It stands out due to its exceptional corrosion protection based on a zinc-magnesium coating on the steel itself for a new dimension of resistance at the most critical points. With its excellent wear resistance, the material can take even extraordinarily high mechanical stresses. And its even, visually appealing surfaces satisfy the highest aesthetic demands. Unrivaled features include paint-film-paint coatings that deliver exceptional functional and decorative performance. And of course the THREESTAR*** quality class also has excellent ease of processing that makes bending, deep-drawing, and profiling trouble-free.

Top scores on all points.

With this range of extraordinary properties, no wonder THREESTAR*** is a guarantee of an exceptionally long service life in commercial and utility vehicles.
BEING CLOSE TO THE CUSTOMER IS JUST PART OF OUR DAY-TO-DAY BUSINESS.
Success starts with good organization.

To consistently succeed, you have to stay close to your market and the people in it. That’s why intensive cooperation with our business partners, customers, and suppliers is one of our top priorities. As Europe’s leading coil coater, we systematically align our organization to bring together our technology, innovation, and sales functions to meet and exceed the needs and wishes of those who use our PLADUR® products.

A contributing factor in this strongly focused customer orientation is close integration of our production, product development, logistics, and sales teams to ensure direct channels of communication.

Interdepartmental teamwork for increased efficiency.

This also includes setting up simultaneous engineering project teams to help reduce development times and boost efficiency in innovation processes for our customers. The result: We can bring innovations to market maturity faster in close cooperation with our partners.

To carry out all processes more quickly and efficiently, we host highly successful customer and innovation workshops, in addition to the customer-specific product and application consultation that ThyssenKrupp Steel Europe offers.
TAKING Refined-SURFACE STEEL INTO THE FUTURE.
Only the best technologies are good enough.

At ThyssenKrupp Steel Europe, we’re proud of our capacity to put the unique advantages of steel with refined surfaces to work in meeting people’s needs and wishes – today, tomorrow, and beyond. In keeping with our traditional principles, three band-coating systems at our Duisburg and Kreuztal sites utilize the best available technologies in highly progressive and always up-to-date production methods.

To stay at least one step ahead of the times in the research and development of new materials, we always act and think beyond the boundaries of our corporate group. For example, we have formed an extensive network with specialists from the fields of science and engineering. Intensive partnerships with universities and non-university research institutes are part of our established structure.

Knowledge through cooperation.

Our consistent quality management also contributes to our ability to stay ahead – and not settle with state-of-the-art solutions. We practice total quality management that incorporates our suppliers, enabling us to realize our most ambitious goals and those of our customers and business partners. This is reflected in certifications like ISO 9001:2000 and ISO/TS 16949:2002, as well as the accreditation of research and development laboratories according to DIN EN ISO/IEC 17025. And if that isn’t enough, we use the European Foundation for Quality Management (EFQM) model to further refine our management and business processes.

Focussing on top performance is our standard operating mode.

Everything aligned to serve one goal: to stay equipped to be a pioneer in every aspect of steel for our customers – always.
Head of Sales Color / Home Appliances

Axel Pohl
Telephone +49 (0) 2732 599-4578
E-mail info.color@thyssenkrupp.com