

Steel

# pladur<sup>®</sup> Aesthetic

Segment Home

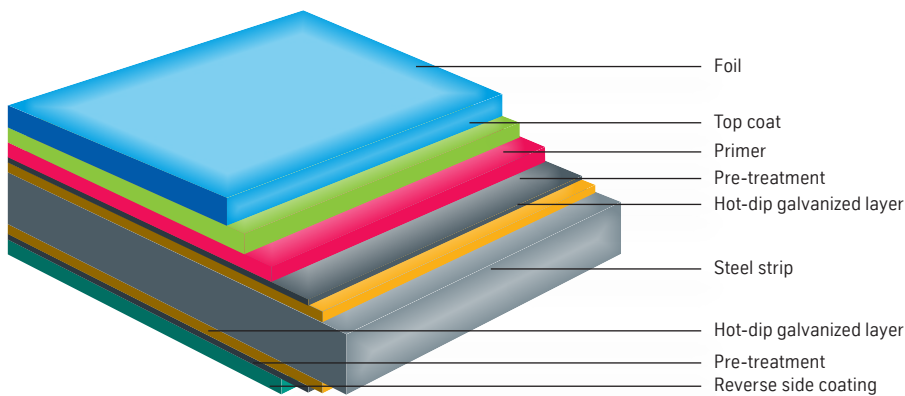
Product information for coil-coated high-grade flat steel



thyssenkrupp

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## Material structure



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## Brief profile

pladur<sup>®</sup> Aesthetic is the ideal solution for discerning customers who are looking for products with which to replace enameled surfaces. It is an innovative, organically coil-coated product that meets the highest demands in terms of aesthetics and chemical resistance. With its long-wave surface structure, which is reminiscent of enameled surfaces, and the specially developed application concept, it provides the look and feel that discerning customers are looking for.

In addition, pladur<sup>®</sup> Aesthetic offers high resistance to moisture, detergent solution and even hydrogen peroxide, making it ideal for applications in demanding environments. The high performance with regard to forming behavior also makes the product versatile within a wide temperature range, ensuring a long service life and aesthetic appeal.

Thanks to the foil covering, the coating is also better protected against mechanical stresses, and consequently offers higher resistance – even to scratches. The good cut edge adhesion during and after material processing ensures the material can be worked with effectively, for an optimum end product. Another outstanding feature of pladur<sup>®</sup> Aesthetic is less susceptible to soiling, thus offering the customer easier and better cleaning options.

pladur<sup>®</sup> Aesthetic is ideal for the high-quality exterior cladding of dishwashers, refrigerators, washing machines, top loaders and dryers.

## Available dimensions

	Thickness from_to [mm] <sup>1)</sup>	Width from_to [mm] <sup>1)</sup>	Length from_to [mm] <sup>1)</sup>
Strip	0.15–2.00	600–1,000	–
Sheet	0.30–2.00	430–1,000	500–3,000

<sup>1)</sup> Not all thickness and width combinations are possible.

## Product features

Feature	Test procedure/method	Typical characteristic values
<b>Nominal coating thickness</b>	DIN EN 13523-1	60 µm
<b>Appearance</b>		
Surface appearance		High-gloss, flat structure
Gloss (20°)	DIN EN 13523-2	> 90 GU
Color (CIE-L*a*b* or ΔE*)	DIN EN 13523-3	according to color shade standard/by agreement
<b>Deformation resistance</b>		
T-bend cracking	DIN EN 13523-7	≤ 1.0 T, no crack formation
T-bend adhesion loss	DIN EN 13523-7	= 0 T, no loss of adhesion
Erichsen cupping 5 mm cracking	DIN EN 13523-6	OK, no crack formation
Erichsen cupping 5 mm adhesion	DIN EN 13523-6	OK, no loss of adhesion
<b>Durability</b>		
MEK rub test	DIN EN 13526-11	> 50 double rubs
Scratch resistance	DIN EN 13523-12	> 4.000 g
Cross cutting	DIN EN ISO 2409	GT = 0
Abrasion resistance (Taber Abraser)	DIN EN 13523-16	< 40 mg
Temperature resistance	DIN EN 13523-13	-25 to +80 °C (ΔE* < 1; T-bend constant)
<b>Weathering resistance</b>		
Constant humidity condensation atmosphere (CH)	DIN EN ISO 6270-2	Degree of blistering < 2(S2) after 1,500 h
Alternating humidity and temperature atmosphere (AHT)	DIN EN ISO 6270-2	Degree of blistering < 2(S2) after 1,500 h
Salt spray test	DIN EN ISO 9227	Degree of blistering < 2(S2) after 120 h Degree of delamination ≤ 2 mm after 120 h
UV resistance (xenon test)	DIN EN ISO 4892-2	ΔE* ≤ 1 after 100 h; ΔE* ≤ 1 after 300 h
Corrosion protection (interior) category (CPI)	DIN EN 10169	CPI 5
<b>Reverse-side coating</b>		approx. 10 µm, grey

## Quality management

All locations of thyssenkrupp Steel Europe AG are certified in accordance with ISO 9001, including the additional requirements of the international automotive industry IATF 16949. The chemistry and materials testing laboratories in the Innovation division (Duisburg and Dortmund sites) are accredited according to DIN EN ISO/IEC 17025.

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## General information

No explanation of the test methods has been provided here, consequently the specified standards for the test methods must be observed. The information on the product characteristics was obtained from numerous sample productions, and represents average values that serve as a guide and may vary in individual cases. The information has been compiled conscientiously, but is nevertheless not guaranteed. As a result of technical developments and legal requirements, product features may vary and are therefore subject to change.