

ASTRAPLATE

High value added coatings

Today's utopias
will be
tomorrows projects



REPLASA
FINISHED METALS COATING YOUR INNOVATIONS

General Characteristics

It offers aesthetic solutions to decorative or outdoor applications, with customised designs and high exterior durability.

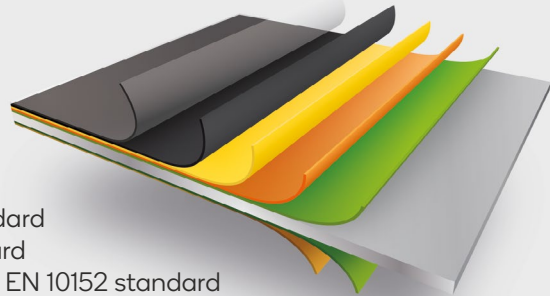
General Properties

- Improves the metallic substrate resistance to corrosion.
- Wide variety of aesthetic finishes (stainless steel, aluminium, solid color, prints, etc.)
- Easy cleaning.
- Good scratch resistance.
- Resistance to stains and to cleaning products.
- Resistance to UV ageing.
- High flexibility and bending, but cannot be welded.
- Use in clean rooms (see references).
- Suitable for food contact, according to Directive 1935/2004 and 10/2001 as well as FDA Regulation 21 CFR 177.1630.

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Composition

- Protective film 30-50 μ (optional)
- PET film 12-23 μ
- Adhesive 7-10 μ
- Primer 5-7 μ
- Chemical treatment
- Metallic substrate
 - Galvanised steel according to EN 10346 standard
 - Cold rolled steel according to EN 10131 standard
 - Electrolytically zinc coated Steel according to EN 10152 standard
 - Aluminium according to EN 485 standard
- Chemical treatment
- Back primer 5-10 μ



Product behaviour

Description	Testing Standard		Unit	Result	Observations
Total coating thickness	EN 13523-1	ASTM D1005	μ	24 - 40	
Specular Gloss	EN 13523-2	ASTM D523	%	15 - 60	Variable depending on film and design
Pencil hardness	EN 13523-4	ASTM D3363		H - 2H	
Adherence after Erichsen cupping	EN 13523-6	ASTM E643	mm	0T	
T Bending	EN 13523-7	ASTM D522		0 - 0,5T	No cracking
Resistance to salt spray	EN 13523-8	ASTM B117	hours	> 500	Interior film
				> 1000	Exterior film
Resistance to MEC friction test	EN 13523-11	ASTM D5402	DF	> 150	
Resistance to accelerated Xenotest ageing test	EN 13523-10	ASTM D6695	hours	> 1000	Without changes $\Delta E < 1$ interior film
				> 3000	Without changes $\Delta E < 1$ exterior film
Stain resistant (strawberry, orange, butter, fried tomato, mustard, lipstick, oil, milk, coffee, tea, chocolate, and soap)	EN 13523-18	ASTM D1308		Stain free	After 24 hours
Taber abrasion	UNE 48250	ASTM 4060	mg	6,2	Good scratching behaviour after 1000 cycles

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