

MÄDER PRODUCTS & SERVICES FOR COIL COATING



MÄDER AT A GLANCE

190 M€

turnover

—

x20

increase of the turnover
in 20 years

—

820

employees dedicated to
customer satisfaction

—

70

countries where MÄDER coatings
are sold

—

13

Research & Development centers

—

10

production facilities



WE OFFER INNOVATIVE SOLUTIONS TO OUR CUSTOMERS WE ARE COMMITTED TO SUPPORT THEIR GROWTH ACROSS THE GLOBE



WIDE RANGE
OF PRODUCTS
FOR HIGH
DEMANDING
MARKETS



RAILWAY



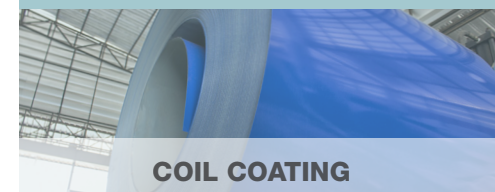
AUTOMOTIVE



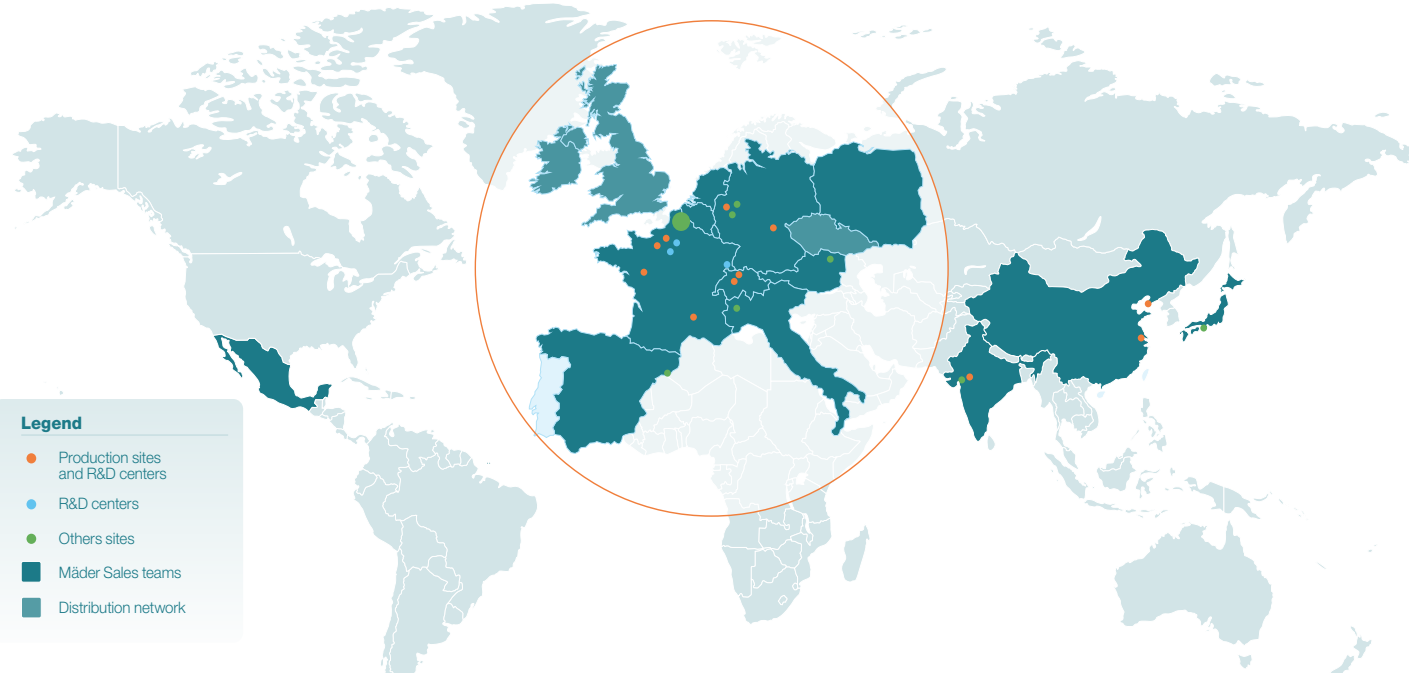
AEROSPACE



**GENERAL INDUSTRY &
SPECIALITIES**



COIL COATING



Legend

- Production sites and R&D centers
- R&D centers
- Others sites
- Mäder Sales teams
- Distribution network



PIONEERING SOLUTIONS

- 10% turnover invested in high added value Research and Development
- Specialized R&D task force
- Partnerships with universities and research centers



ECO-FRIENDLY APPROACH & SUSTAINABLE DEVELOPMENT

- High-Tech and innovative systems: UV curing technology, water-based paints, bio-sourced resins...
- Continued involvement for a sustainable and responsible development
- Health and Safety commitment



SUPPORT FOR OUR CUSTOMER GLOBALLY

- High added value tailor-made developments & co-developments
- Technical assistance
- Customer training



COIL COATING APPLICATIONS

Today, a large variety of industries use prepainted metal products to cover a

MÄDER offers a large set of solutions for coil coating: standard quality which provides a very high level of performance.

APPLICATIONS



FACADE
PANELS



GARAGE
DOORS

**DUROVERN
COIL COATING RANGE**

DUROVERN PE
DUROVERN PU
DUROVERN UHD

wide range of applications in markets such as building & construction, transportation or home appliances.

coatings based on POLYESTER (PE) and POLYURETHANE (PU) resins, as well as a unique & proprietary ULTRA HIGH DURABLE (UHD) technology



ROLLER
SHUTTERS



GUTTERS



FURNITURE



TRANSPORT



FEATURES & BENEFITS OF MÄDER DUROVERN COATING SYSTEMS

- Beautiful top coats in terms of colors & effects providing durable steel and aluminium surfaces
- Available in standard qualities (PE & PU) and innovative polyester-based UHD
- Specifically designed for outdoor applications with UV resistance from RUV 3 to RUV 4+
- Compatible with customer aesthetical and technical requirements
- Wide range of colors including textured and metal effects
- Special properties such as self cleaning or scratch resistance
- Pigment paste and colorant systems with high stability available on tinting machine (COLORMIX)



MÄDER COIL COATING SYSTEMS

DUROVERN coil coating range meets the requirements of the most level of performance in terms of hardness and resistance to chemicals, dirt

DUROVERN PE & DUROVERN PU

Standard quality coatings providing a high level of performance.

- Based respectively on polyester (PE) and polyurethane (PU) resins
- Providing high UV resistance (RUV 3 according to EN standards), good hardness and chemical resistance
- Large color library & custom color upon request
- Available in a wide range of gloss (10-90), from deep matt to high gloss finishes
- Available in PE/PA & PU/PA versions (with polyamide) for higher abrasion resistance and for PU/PA improved bending properties
- Recommended for garage doors, roller shutters...
- Warranty: 5 years



What does the norm require?

EN-10169 Steel / EN-1396 Aluminium

	QUV-A (After 2 000 hours)	FLORIDA (After 2 years)
RUV 2	GR > 30% $\Delta E < 5$	GR > 30% $\Delta E < 5$
RUV 3	GR > 60% $\Delta E < 3$	GR > 50% $\Delta E < 3$
RUV 4	GR > 80% $\Delta E < 2$	GR > 80% $\Delta E < 3$

GR = Gloss Retention

ΔE = Color Deviation

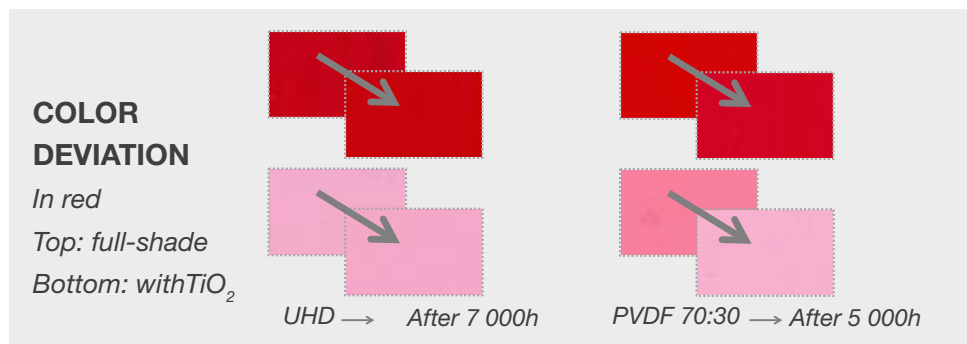
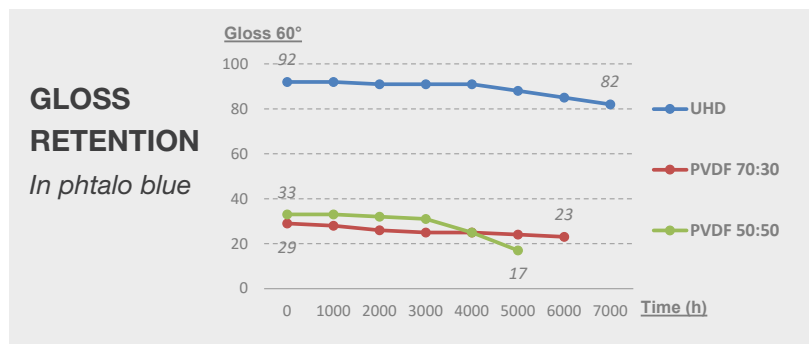
demanding customers by offering protective & decorative coatings in an extensive range of colors, textures and effects, while providing a high and stains.

DUROVERN UHD

Innovative coatings providing superior durability & weather resistance.

- Unique & proprietary polyester-based coatings developed by Mäder scientists
- Providing best-in-class performance in terms of hardness, chemical resistance and UV resistance (up to RUV 4+)
- Available in a wide range of gloss (10-90), from deep matt to high gloss finishes [*vs. gloss max 40 for PVDF*]
- Compatible with all pigments including organic pigments: Wide range of colors available [*vs. limited color pallet for PVDF*]

COMPARISON OF UV RESISTANCE (QUV-A): UHD vs. PVDF



- Low consumption of paint [*30-40% lower than PVDF, 10-15% lower than PE / PU for each layer*]
- Increased productivity: 2 top coat layers for steel [*vs. 3 for PVDF*]; 1 top coat layer for aluminium [*vs. 2 for PVDF*]
- Recommended for facade panels, metal roofing, external claddings...
- Warranty: 10-15 years



DUROVERN UHD MEETS THE MOST STRINGENT REQUIREMENTS IN METAL CONSTRUCTION AND CAN BE CONSIDERED AS AN ALTERNATIVE TO STANDARD PVDF



DUROVERN: AN UNLIMITED RANGE OF COLORS

Colors are attractive to any human being, they generate **emotions** & trigger **inspiration**.

COLOR LIBRARY

With more than 40 years experience in coil coating, Mäder has developed an extensive range of colors to match the needs of customers. Mäder color library offers more than 10 000 color shades, in matt, semi-gloss and glossy finishes.

CUSTOM COLORS

Mäder color scientists are able to develop any new color and effect upon request, to meet the desires of architects & designers.

CREATIVE DESIGN

Mäder Design department is an in-house team dedicated to finding innovative colors & effects, including optic & haptic effects, combining knowledge of the latest trends and creativity.



DUROVERN: A WIDE RANGE OF METAL & SPECIAL EFFECTS

METAL EFFECTS

Metal effects beautify the surface by bringing directional appearance and light. These effects are highly appreciated by architects and designers and Mäder has developed best-in-class know-how in this field.

SPECIAL & INNOVATIVE EFFECTS

Mäder can offer a wide range of effects to optimize visual appeal, such as:

- Textured
- Brushed
- Polished
- Sparkled
- Crinkled
- ...

Mäder scientists are available to develop any effect upon request, always combined with high level of performance.



A COMPREHENSIVE RESISTANT, FLEXIBLE & COLORFUL PRODUCT RANGE

DUROVERN TOP COATS

		Polyester	Polyurethane	Ultra High Durable	
		DUROVERN PE	DUROVERN PU	DUROVERN UHD	
SUBSTRATE	Aluminium	X	X	X	
	Steel	X	X	X	
SPECIFICATIONS	Gloss	10 - 90	10 - 90 <i>20 - 30 for textured coatings</i>	10 - 90	
	Resin	Polyester	Polyester + Isocyanates	Proprietary polyester based	
	Pigments	All	All	All	
	RUV	3	3	4+	
PERFORMANCES	QUV-A	After 2 000 hours GR >60%	After 2 000 hours GR >60%	After >7 000 hours GR >90%	
	Florida	After 2 years GR >50% $\Delta E < 3$	After 2 years GR >50% $\Delta E < 3$	After 5 years GR >90% $\Delta E 3 - 5 (<3 \text{ after } 2 \text{ years})$	
	Hardness	HB	HB	F	
	Chemical resistance	+	+	++	
	Flexibility	+	++	+	
	Yield	+	+	++	
	Consumption	100	100	85 - 90	
	BENEFITS	Warranty	5 years	5 years	10 - 15 years
	APPLICATION	Aluminium	1 layer	1 layer	1 layer
		Steel	2 layers	2 layers	2 layers
Layer thickness		16-25 micro-meters	16-25 micro-meters	16-25 micro-meters	

GR = Gloss Retention
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HOW MÄDER MAKES A VALUABLE DIFFERENCE

MÄDER IS A GLOBAL, TRUSTED AND CUSTOMER-FOCUSED PARTNER

We work closely with our customers in every step of a project, from the design phase to mass production.

MÄDER teams are focused on delivering comprehensive coating solutions leveraging:

- In-house expertise, development of advanced coating technologies
- Upstream thinking and co-engineering with customers
- Innovative product designs
- High quality and environmental-friendly coating systems
- Technical expertise including support during industrialization phase
- Technical assistance to customers provided by a dedicated team

MÄDER is certified according to the major European management standards:

- ISO 9001 & IATF 16949 Quality Management
- ISO 14001 Environmental Management

MÄDER products comply with the specifications of high demanding customers.

MÄDER, YOUR RELIABLE PARTNER

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