

Advanced protective
coatings for transmission
towers, transformer tanks
and radiator systems

Protecting **Power Transmission Transformer Technology**



MEGAMAR

A Shared Legacy of Expertise and Innovation

Two Independent Histories - One Strategic Partnership

1620 - Start of the Wilckens family's grain trade.

1845 - M. Wilckens & Sohn was officially established in Northern Germany.

1930s - Expansion of Wilckens into advanced synthetic coating technologies marked a new industrial era.

Mid 1980s - MEGA was founded, focusing on specialized protective coating systems.

Early 2000s - A strategic partnership (MEGA WILCKENS) united two strong and complementary legacies.

Today - Nearly two centuries of heritage and decades of protective coating expertise drive global high-performance solutions. Since early 2000s, both companies have combined their strengths through a strategic partnership while maintaining their independent identities.

The collaboration enables shared technological expertise, coordinated development and expanded international reach-bringing together nearly two centuries of manufacturing heritage with decades of specialized protective coating experience.

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Proven Expertise in Power Transmission and Transformer Applications, Supported by a Comprehensive Product Range

With long-standing experience in transformer and power transmission equipment, MEGA WILCKENS understands the critical role that high-quality coatings play in ensuring long-term asset protection.

To meet the demanding requirements of the sector, MEGA WILCKENS has developed robust and reliable coating systems suitable for all types of transformers.

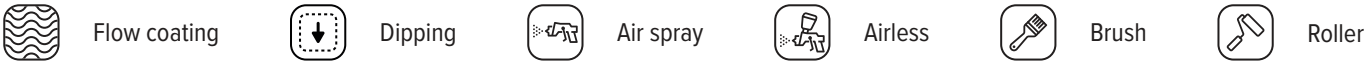
These systems are tested against the most stringent industry standards and certified in accordance with ISO

12944 performance and are developed in full compliance with the **specifications** and technical requirements of **leading international OEMs** and **major global manufacturers**, supported by technical expertise to ensure reliable implementation and long-term asset integrity.

Key Focus Areas

- Reduced film thickness and an optimized coating build can still deliver long-term corrosion protection-provided the system is engineered to meet or exceed ISO 12944 requirements, offering full protection coverage across the complete corrosivity range from C3 to CX.
- High - solid and low - VOC formulations to improve material efficiency and reduce emissions.
- Advanced water-based coating technologies aligned with environmental regulations.
- Drying and curing profiles optimized for spray, flow-coating, and immersion applications, ensuring consistent quality across both automated and manual applications.

Application Method Icons



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Primers

MEGAMAR 399

High-build epoxy primer suitable for spray and flow-coating applications. Provides excellent anticorrosion protection and achieves high film thickness in a single coat.

MEGAMAR 110

Zinc-rich epoxy primer with very high zinc content (approx. 90%). Requires a higher blasting profile and is typically applied on power transformer tanks.

MEGAMAR 131/133

Epoxy primers with aluminium pigments, particularly suitable for galvanized steel, stainless steel and aluminium substrates. Applicable by spray and flow coating.

MEGAMAR 130

Primer for internal transformer components in contact with oil, typically supplied in RAL 9010 according to customer specifications. Can also be used as an external primer.

Topcoats

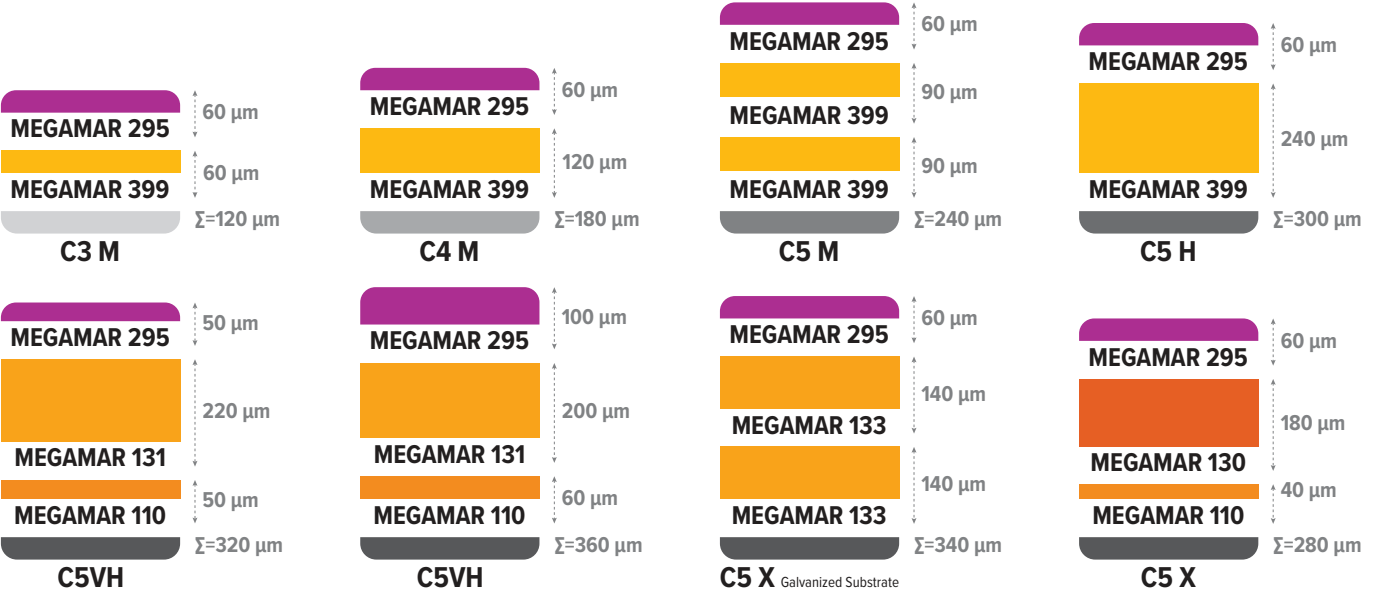
MEGAMAR 295

Polyurethane topcoat offering good elasticity and long-term protection. Available in RAL or customer-specific colors, with matt, semi-gloss or gloss finishes, including MIOX options.

Single-Coat Solution

MEGAMAR 393 (1K)

Usable as primer and topcoat up to C4H according to ISO 12944. While still available, many end users prefer higher-performance multi-coat systems.



Water-Based Coating Systems

Primers

MEGAMAR 500

Two-component epoxy primer, typically applied by flow coating. Provides excellent anticorrosion properties with a dry film thickness of 70–80 microns per coat.

MEGAMAR 116

Two component, water-based epoxy zinch rich epoxy primer.

Topcoat

MEGAMAR 620

Two-component acrylic-urethane topcoat, available in gloss or matt finishes. Applicable by spray or flow coating.

Primer & Topcoat - Flow Coating / Dipping

MEGAMAR 650

One-component epoxy-acrylic system usable as both primer and topcoat. Commonly applied by flow coating or immersion, particularly for distribution tanks and radiators.

Driven by sustainability goals and regulatory requirements, **MEGA WILCKENS** has developed innovative water-based coating systems for transformer applications.

Mixed Coating Systems

MEGA WILCKENS mixed systems combine solvent-based and water-based technologies to balance performance, process requirements and environmental considerations. These systems are configured to meet specific customer needs while ensuring compliance with applicable standards and production constraints.

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System Examples

C5 H

Product Names	Dry Film Thickness	# of Layers
MEGAMAR 399 NANOTECH	240 µm	2
MEGAMAR 295 (Polyurethane)	60 µm	1
TOTAL	300 µm	3

Product Names	Dry Film Thickness	# of Layers
MEGAMAR 399 NANOTECH	240 µm	2
MEGAMAR 650 (Water Based Polyurethane)	60 µm	1
TOTAL	300 µm	3

Product Names	Dry Film Thickness	# of Layers
MEGAMAR 500 (Water Based Epoxy)	240 µm	3
MEGAMAR 650 (Water Based Polyurethane)	60 µm	1
TOTAL	300 µm	4

Product Names	Dry Film Thickness	# of Layers
MEGAMAR 130 (Epoxy)	80 µm	1
MEGAMAR 131 (Epoxy)	160 µm	2
MEGAMAR 295 (Polyurethane)	60 µm	1
TOTAL	300 µm	4

Product Names	Dry Film Thickness	# of Layers
MEGAMAR 110 (Zinc Rich Epoxy)	50 µm	1
MEGAMAR 131 (Epoxy)	150 µm	2
MEGAMAR 295 (Polyurethane)	60 µm	1
TOTAL	260 µm	4

Product Names	Dry Film Thickness	# of Layers
MEGAMAR 133 (Epoxy)	80 µm	1
MEGAMAR 131 (Epoxy)	120 µm	2
MEGAMAR 295 (Polyurethane)	60 µm	1
TOTAL	260 µm	4

MEGAMAR 133 - Excellent adhesion on Hot Galvanized, aluminium, stainless steel substrates. TESTED on Zinc Galvanized Substrate.
MEGAMAR 399 - Can be applied vertically as 150-200 µm in a single layer.
MEGAMAR 500 - Single pack Water Based Acrylic Primer

💧 = Water Based

C5 M

	Product Names	Dry Film Thickness	# of Layers
💧	MEGAMAR 500 (Water Based Epoxy)	180 µm	3
💧	MEGAMAR 620 (Water Based Polyurethane)	60 µm	1
	TOTAL	240 µm	4

Product Names	Dry Film Thickness	# of Layers
MEGAMAR 130 (Epoxy)	80 µm	1
MEGAMAR 131 (Epoxy)	100 µm	1
MEGAMAR 295 (Polyurethane)	60 µm	1
TOTAL	240 µm	3

C4 H

	Product Names	Dry Film Thickness	# of Layers
💧	MEGAMAR 650	260 µm	4
	TOTAL	260 µm	4

MEGAMAR 650 - Single pack Water Based Acrylic Primer / Topcoat - applicable by dipping, flow coating, spray, brush/roll

C4 M

	Product Names	Dry Film Thickness	# of Layers
💧	MEGAMAR 500 (Water Based Epoxy)	120 µm	2
💧	MEGAMAR 620 (Water Based Polyurethane)	60 µm	1
	TOTAL	180 µm	3

MEGAMAR 500 + MEGAMAR 620 - 2 pack Water Based Painting System, Epoxy Primer + Aliphatic Polyurethane Topcoat

Product Names	Dry Film Thickness	# of Layers
💧 MEGAMAR 650	200 µm	3
TOTAL	200 µm	3

MEGAMAR 650 - Single pack Water Based Acrylic Primer / Topcoat - applicable by dipping, flow coating, spray, brush/roll

The proposed coating systems have been tested and certified according to ISO 12944-5 by a laboratory accredited according to UNI CEI EN ISO/IEC 17025:2018 (Innovhub - Stazioni Sperimentali per l'Industria S.r.l.) Should you have any questions, please refer to our technical data sheets or contact our Technical Staff.

More Efficient.
More Sustainable.
More Reliable.

We develop coating solutions that combine **process efficiency, long-term protection and environmental responsibility.**

Our systems are engineered to support optimized production processes while reducing material consumption, emissions and total lifecycle costs - without compromising on performance or durability.

MEGAMAR

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