

**Designed to last,  
certified to perform.**

**Coating systems certified according  
to the UNI EN ISO 12944 standard.**



**Vernici  Caldart**

## Performance by design.

Our scientific approach to corrosion protection.



### A process to be managed. Corrosion.

Corrosion is more than a simple aesthetic flaw. It is a natural electrochemical process that degrades steel, compromising its mechanical strength, safety, and economic value. Any structure without adequate protection is subject to this inevitable deterioration. Taking preventive action with cutting-edge coating systems is not an expense, but a strategic investment aimed at safeguarding value and structural integrity over time.

### Our response. Beyond the paint.

Our response goes beyond simple paint. We design integrated protective systems where every component is essential. The goal is to create a **high-performance, synergistic barrier** between the steel and external agents, combining the action of the primer, intermediate coats, and finish.

True effectiveness does not lie in a single product, but in the correct engineering of the entire cycle - from surface preparation to the full curing of the system.

### A common language. The value of the ISO 12944 standard.

Addressing complex challenges requires a rigorous and globally recognized method. The UNI EN ISO 12944 standard is the international benchmark defining the criteria for effective and measurable corrosion protection. For us at Vernici Caldart, it represents **the foundation of our dialogue** with designers and applicators - a shared technical language that allows us to translate the needs of every project into a guaranteed and certified protection system.

## The 3-Step Method.

A protocol for maximum effectiveness.

#### STEP 01

### Analyzing the environment. Corrosivity categories.

The first step consists of analyzing the operating environment. Following the ISO 12944-2 standard, we classify the corrosivity level to design a perfectly dimensioned protective cycle, thereby **optimizing performance and costs** for the specific requirements of the structure.

CATEGORY	CORROSIVITY	EXTERIOR ENVIRONMENTS	INTERIOR ENVIRONMENTS
C1	Very Low		Heated buildings with clean atmospheres (offices, shops, schools).
C2	Low	Rural areas, environments with low pollution levels.	Unheated buildings where condensation may occur (warehouses, gyms).
C3	Medium	Urban and industrial atmospheres with moderate SO <sup>2</sup> pollution; coastal areas with low salinity.	Rooms with high humidity and some air pollution (food-processing plants, laundries, breweries).
C4	High	Industrial areas and coastal areas with moderate salinity.	Chemical plants, swimming pools, coastal shipyards.
C5	Very High	Industrial areas with high humidity and aggressive atmospheres; coastal/offshore areas with high salinity.	Buildings or areas with almost permanent condensation and high pollution.
CX	Extreme	Offshore areas with high salinity; extreme industrial environments; tropical and subtropical zones.	Industrial areas with extreme humidity and aggressive atmospheres.

#### STEP 02

### Define the durability range. Durability categories.

Durability, according to the standard, indicates the expected time interval until the first major maintenance intervention. It is a fundamental technical estimate - not a warranty—that allows for long-term cost planning and aligns the investment with the actual life expectancy of the project..

CATEGORY	DURABILITY	RANGE / YEARS
L	Low	Up to 7 years
M	Medium	7 to 15 years
H	High	15 to 25 years
VH	Very High	Over 25 years

#### STEP 03

### Building solid foundations. Surface preparation.

This is the critical step. Coating an unprepared substrate is like building without a foundation: surface preparation is not an option, but the **essential basis for the adhesion and performance of the system**.

The most effective method is abrasive blast cleaning. We recommend grade SA2.5 (Near-White Metal): this standard for high-performance cycles removes over 95% of contaminants such as rust and mill scale, ensuring an ideal base for perfect adhesion. For the most critical environments, grade SA3 (White Metal) is utilized for total cleaning.



# Solvent-based coating systems

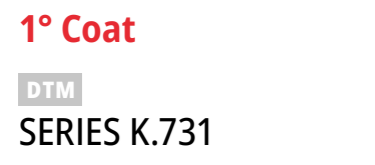
## Vernici Caldart

190.90900 + K.231 | Blast-cleaned steel to Grade SA2.5



TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>SOLVENT-BASED</b>	200/220 µm
<b>CERTIFIED SYSTEM</b>	
C4L Up to 7 years	High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
240 h	120 h

K.731 | Blast-cleaned steel to Grade SA2.5



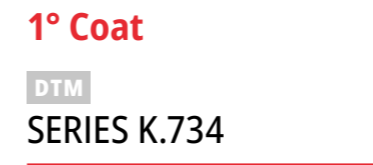
TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>SOLVENT-BASED</b>	160/180 µm
<b>CERTIFIED SYSTEM</b>	
C4M 7 to 15 years	High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
480 h	240 h

193.R7035 + K.731 | Blast-cleaned steel to Grade SA2.5



TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>SOLVENT-BASED</b>	200/220 µm
<b>CERTIFIED SYSTEM</b>	
C4M 7 to 15 years	High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
480 h	240 h

K.734 | Blast-cleaned steel to Grade SA2.5



TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>SOLVENT-BASED</b>	140/160 µm
<b>CERTIFIED SYSTEM</b>	
C5M 7 to 15 years	Very High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
720 h	480 h

193.R7035 + K.210T | Blast-cleaned steel to Grade SA2.5



TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>SOLVENT-BASED</b>	170/200 µm
<b>CERTIFIED SYSTEM</b>	
C5M 7 to 15 years	Very High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
720 h	480 h

193.HS990 + K.2H1 | Blast-cleaned steel to Grade SA2.5

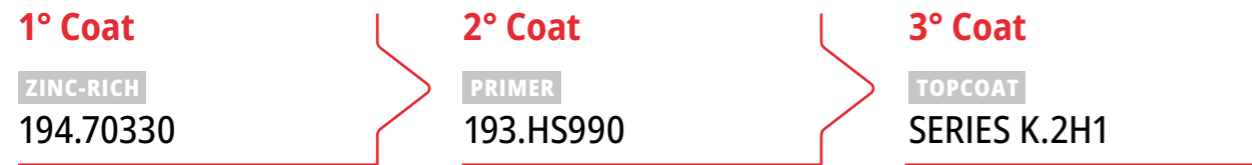


TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>SOLVENT-BASED</b>	180/200 µm
<b>CERTIFIED SYSTEM</b>	
C5M 7 to 15 years	Very High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
720 h	480 h

# Solvent-based coating systems

## Vernici Caldart

194.70330 + 193.HS990 + K.2H1 | Blast-cleaned steel to Grade SA2.5



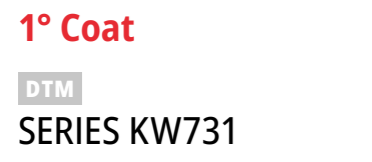
TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>SOLVENT-BASED</b>	230/250 µm
<b>CERTIFIED SYSTEM</b>	
C5H* 15 to 25 years	Very high Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
1440 h	720 h

\* Test conducted at the Vernici Caldart laboratory.

# Water-based coating systems

## Vernici Caldart

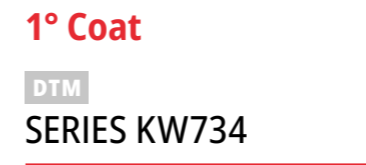
KW731 | Blast-cleaned steel to Grade SA2.5



TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>WATER-BASED</b>	100/120 µm
<b>CERTIFIED SYSTEM</b>	
C4M 7 to 15 years	High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
480 h	240 h

# Vernici Caldart Coating Systems

KW734 | Blast-cleaned steel to Grade SA2.5



TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>WATER-BASED</b>	100/120 µm
<b>CERTIFIED SYSTEM</b>	
C4M 7 to 15 years	High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
480 h	240 h

193W70121 + KW711 | Blast-cleaned steel to Grade SA2.5



TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>WATER-BASED</b>	260/280 µm
<b>CERTIFIED SYSTEM</b>	
C5M 7 to 15 years	Very high Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
720 h	480 h

793W90900 + KW711 | Blast-cleaned steel to Grade SA2.5



TYPE	NOMINAL TOTAL DRY FILM THICKNESS (TDFT)
<b>WATER-BASED</b>	220-240 µm
<b>CERTIFIED SYSTEM</b>	
C5M 7 to 15 years	High Corrosivity Environment
SALT SPRAY TEST ISO 9227	HUMIDITY RESISTANCE TEST ISO 6270-1
720 h	480 h

Testing conducted at Istituto Giordano laboratories.

# Products

## Vernici Caldart



Colortech is the high-precision industrial tinting system by Vernici Caldart. Compatible converters, marked with the symbol, can be tinted to your required shade, ensuring maximum color fidelity and consistent quality.



### 194.70330

SOLVENT-BASED



### EPOZINC - TWO-COMPONENT ZINC-RICH EPOXY

Two-component zinc-rich epoxy primer with high zinc dust content (75% by weight). Ideal as a first coat for high-performance anticorrosive cycles. Excellent compatibility with epoxy primers and intermediate coats.

<b>Mixing ratio</b>	10% CZ.105	<b>Finish</b>	GREY, MATTE
<b>Thinning</b>	5-15% D.150	<b>Pot life</b>	6 h at 20 °C
<b>Dust-free time</b>	15'-20' at 20 °C	<b>Tack-free</b>	4-5 h at 20 °C
<b>Force drying</b>	30'-40' at 60-80 °C	<b>Recommended DFT</b>	60-80 µm

### 193.HS990

SOLVENT-BASED



### EPOFLEX ZINC HS WHITE

Two-component, high-build, anticorrosive epoxy-polyamide primer. It can be overcoated with most coating products.

<b>Mixing ratio</b>	20% CZ.105	<b>Finish</b>	WHITE, MATTE
<b>Thinning</b>	5-20% D.150	<b>Pot life</b>	5 h at 20 °C
<b>Dust-free time</b>	15'-20' at 20 °C	<b>Tack-free</b>	5 h at 20 °C
<b>Force drying</b>	45' at 60-80 °C	<b>Recommended DFT</b>	120-140 µm

### SERIES K.2H1

SOLVENT-BASED



### 193.R7035

SOLVENT-BASED



### SERIES K.210T

SOLVENT-BASED



### SERIES K.731

SOLVENT-BASED



### TECNOPUR HS EXTRA GLOSS

Premium high-gloss finish formulated with high-solid acrylic-polyester resins.

<b>Mixing ratio</b>	50% CZ.711	<b>Finish</b>	GLOSSY
<b>Thinning</b>	5-20% D.737	<b>Pot life</b>	4 h at 20 °C
<b>Dust-free time</b>	30'-40' at 20 °C	<b>Tack-free</b>	6-7 h at 20 °C
<b>Force drying</b>	60' at 60-80 °C	<b>Recommended DFT</b>	60-80 µm

### EPOFLEX ZINC GREY

Two-component epoxy-polyamide zinc phosphate primer. It ensures excellent adhesion to various substrates.

<b>Mixing ratio</b>	20% CZ.105	<b>Finish</b>	GREY, MATTE
<b>Thinning</b>	5-20% D.150	<b>Pot life</b>	6 h at 20 °C
<b>Dust-free time</b>	15'-20' at 20 °C	<b>Tack-free</b>	5 h at 20 °C
<b>Force drying</b>	30'-40' at 60-80 °C	<b>Recommended DFT</b>	100-120 µm

### TECNOLAK TIXO PUR 2K GLOSS

High-quality, two-component, thixotropic polyurethane gloss finish.

<b>Mixing ratio</b>	40% CZ.265	<b>Finish</b>	GLOSSY
<b>Thinning</b>	5-20% D.737	<b>Pot life</b>	3 h at 20 °C
<b>Dust-free time</b>	30'-40' at 20 °C	<b>Tack-free</b>	7-8 h at 20 °C
<b>Force drying</b>	60' at 60-80 °C	<b>Recommended DFT</b>	60-80 µm

### ACRILGRIP DTM GLOSS

Two-component, high-solid, gloss acrylic "Direct to Metal" (DTM) single-coat product. Formulated with hydroxylated acrylic-polyurethane resins and high-quality anticorrosive pigments, it is specifically designed for direct application on metal substrates for both indoor and outdoor use.

<b>Mixing ratio</b>	20% CZ.711	<b>Finish</b>	GLOSSY
<b>Thinning</b>	5-15% D.737	<b>Pot life</b>	3 h at 20 °C
<b>Dust-free time</b>	15'-20' at 20 °C	<b>Tack-free</b>	3 h at 20 °C
<b>Force drying</b>	45' at 60-80 °C	<b>Recommended DFT</b>	100-140 µm

## SERIES K.734

SOLVENT-BASED



## ACRILGRIP DTM MATT

Two-component, matte, HIGH-SOLID acrylic-polyurethane "Direct to Metal" (DTM) single-coat product. Formulated with hydroxylated acrylic-polyurethane resins and high-quality anticorrosive pigments, it is specifically designed for direct application on metal substrates for both indoor and outdoor use.

<b>Mixing ratio</b>	20% CZ.711	<b>Finish</b>	MATTE
<b>Thinning</b>	5-15% D.737	<b>Pot life</b>	3 h at 20 °C
<b>Dust-free time</b>	10'-15' at 20 °C	<b>Tack-free</b>	2-2.5 h at 20 °C
<b>Force drying</b>	45' at 60-80 °C	<b>Recommended DFT</b>	100-140 µm

## 190.90900

SOLVENT-BASED



## EPOFLEX INDUSTRIAL WHITE

Two-component industrial epoxy-polyamide primer; can be overcoated with most coating products.

<b>Mixing ratio</b>	20% CZ.105	<b>Finish</b>	WHITE, MATTE
<b>Thinning</b>	5-20% D.150	<b>Pot life</b>	6 h at 20 °C
<b>Dust-free time</b>	15'-20' at 20 °C	<b>Tack-free</b>	5 h at 20 °C
<b>Force drying</b>	30'-40' at 60-80 °C	<b>Recommended DFT</b>	120-140 µm

## SERIES K.231

SOLVENT-BASED



## TECNOPUR INDUSTRIAL GLOSS

Two-component industrial polyurethane gloss finish.

<b>Mixing ratio</b>	40% CZ.265	<b>Finish</b>	GLOSSY
<b>Thinning</b>	5-20% D.737	<b>Pot life</b>	4 h at 20 °C
<b>Dust-free time</b>	30'-40' at 20 °C	<b>Tack-free</b>	7-8 h at 20 °C
<b>Force drying</b>	60' at 60-80 °C	<b>Recommended DFT</b>	60-80 µm

## SERIES KW731

WATER-BASED



## ACRYLIC DTM WB GLOSS

Water-based, two-component, gloss acrylic "Direct to Metal" (DTM) single-coat product, formulated with hydroxylated acrylic resins in aqueous dispersion.

<b>Mixing ratio</b>	25% CZW710	<b>Finish</b>	GLOSSY
<b>Thinning</b>	5-15% H <sub>2</sub> O Dis.	<b>Pot life</b>	60' at 20 °C
<b>Dust-free time</b>	20'-30' at 20 °C	<b>Tack-free</b>	4-5 h at 20 °C
<b>Force drying</b>	45' at 60-80 °C	<b>Recommended DFT</b>	100-120 µm

## SERIES KW734

WATER-BASED



## ACRYLIC DTM WB MATT

Water-based, two-component, matte acrylic "Direct to Metal" (DTM) single-coat product, formulated with hydroxylated acrylic resins in aqueous dispersion.

<b>Mixing ratio</b>	20% CZW710	<b>Finish</b>	MATTE
<b>Thinning</b>	5-15% H <sub>2</sub> O Dis.	<b>Pot life</b>	60' at 20 °C
<b>Dust-free time</b>	20'-30' at 20 °C	<b>Tack-free</b>	4-5 h at 20 °C
<b>Force drying</b>	40' at 60-80 °C	<b>Recommended DFT</b>	100-120 µm

## 193W70121

WATER-BASED



## EPOFLEX ZINC WB GREY

Two-component, water-based epoxy zinc phosphate primer.

<b>Mixing ratio</b>	40% CZW140	<b>Finish</b>	GREY, MATTE
<b>Thinning</b>	5-15% H <sub>2</sub> O Dis.	<b>Pot life</b>	90' at 20 °C
<b>Dust-free time</b>	30' at 20 °C	<b>Tack-free</b>	6-7 h at 20 °C
<b>Force drying</b>	60' at 60-80 °C	<b>Recommended DFT</b>	120-140 µm

## 793W90900

WATER-BASED



## ACRIFILLER WHITE - 2K WB ACRYLIC PRIMER

High-build primer based on acrylic resins and isocyanate adduct, to be mixed immediately before use.

<b>Mixing ratio</b>	15% CZW710	<b>Finish</b>	WHITE, MATTE
<b>Thinning</b>	5-15% H <sub>2</sub> O Dis.	<b>Pot life</b>	60' at 20 °C
<b>Dust-free time</b>	15' at 20 °C	<b>Tack-free</b>	3-4 h at 20 °C
<b>Force drying</b>	30-40' at 60-80 °C	<b>Recommended DFT</b>	100-120 µm

## SERIES KW711

WATER-BASED



## ACRYLIC EXTRA GLOSS WB

Two-component, water-based gloss acrylic finish formulated with hydroxylated acrylic resins in aqueous dispersion and aliphatic isocyanate adduct, to be mixed immediately before use.

<b>Mixing ratio</b>	25% CZW711	<b>Finish</b>	GLOSSY
<b>Thinning</b>	5-15% H <sub>2</sub> O Dis.	<b>Pot life</b>	60' at 20 °C
<b>Dust-free time</b>	20'-30' at 20 °C	<b>Tack-free</b>	5-6 h at 20 °C
<b>Force drying</b>	40' at 60-80 °C	<b>Recommended DFT</b>	80-100 µm

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