

**Powder coating systems developed
to provide the highest level of
anticorrosive performance**

RIPOL
the **Power** of **Colour**



DIFFERENT APPLICATIONS CONSISTENT RESULTS

RIPOL has developed high-performance anticorrosive Powder Coating Systems to protect metal substrates such as steel, galvanized steel and aluminum against the various outward forms of corrosion. The formulations are designed to enhance the protective barrier of the substrate, ensuring high resistance to corrosive agents, stability under prolonged exposure and reliable performance even in severe environmental conditions.



Advantages

Formulated with epoxy resins, the RIPOL primers ensure excellent anticorrosive protection of metal components:

- Excellent adhesion properties to substrate and topcoat
- Improved barrier effect
- Excellent mechanical properties
- Improved chip resistance
- Improved corrosion resistance including filiform corrosion
- Excellent chemical resistance
- Easy application
- Good flow and reactivity
- Good edge coverage
- Reduced wear of coating equipment
- Good storage stability

STEEL SUBSTRATES - Anticorrosion Systems compliant with DIN EN ISO 12944-6

Cat.	Sp	Code	Primer	Colour	Thick.	Green Cure	Full Cure	TopCoat	Thick.	Ttl. Thick.	QSC	Uv Class
C4-H	M/C	18LG1G69880	Grey	± 7038*	> 60μ	===	10@160°	S5	> 80μ	>140μ	===	===
C3-H	M/C	22LG1B00220	Grey	± 7001*	> 60μ	===	20-25@180°	S5	> 80μ	>140μ	===	F1 QC1
C3-H	M/C	21LN1900520	Black	± 9005	> 60μ	===	20-25@180°	S5	> 80μ	>140μ	===	F1 QC1
C4-H	M/C	22LN1G61092	Conductive	± 9005	> 60μ	6-10@140°	15-25@160°	S5	> 80μ	>140μ	===	F1 QC1
C4-H	M	26LG1G00090	CorroCare ABP	± 7038	> 60μ	6-10@140°	15-25@160°	S5	> 80μ	>140μ	PE-0065	F1 QC1
C4-H	C	26LG1G00090	CorroCare ABP	± 7038	> 60μ	6-10@140°	15-25@160°	S5	> 80μ	>140μ	PE-0064	F1 QC1
C5-H	M	28LG1C29090	Zinc	± 7000	> 60μ	5@180°	20@160°	S5	> 80μ	>140μ	===	F1 QC1

HDG SUBSTRATES - Anticorrosive Systems compliant with DIN EN ISO 12944-6

Cat.	Sp	Code	Primer	Colour	Thick.	Green Cure	Full Cure	TopCoat	Thick.	Ttl. Thick.	QSC	Uv Class
C5	M	18LG1G69880	Grey	± 7038*	> 60μ	===	10@160°	S5	> 80μ	>140μ	===	===
C5-H	M	26LG1G00090	CorroCare ABP	± 7038	> 60μ	6-10@140°	15-25@160°	S5	> 80μ	>140μ	PE-0072	F1 QC1

ALUMINUM SUBSTRATES

Sp	Code	Primer	Colour	Thick.	Green Cure	Full Cure	TopCoat	Thick.	Ttl. Thick.	QSC	Uv Class
C	12LG1F268A2	ALU	± 7001	> 60μ	===	15-20@180°	S5	> 80μ	>140μ	===	F1 QC1

Cat.: Corrosion category; **HDG:** Hot-dip galvanized steel; **Sp:** Surface pretreatment; **M/C:** Mechanical or Chemical - (Mechanical on Steel: Blasting Sa ≥ 2,5 - Ra 6-12μ; Mechanical on HDG: Sweeping up to lightweight layer of zinc reduction); **Green Cure:** If used in a Dual Layer system, best intercoat adhesion is achieved when pre-cure the primer prior to applying a RIPOL Series 5 topcoat. It is then to be cured, applying the curing parameters as given in the topcoat TDS. **RIPOL S5:** PEA Architectural PE Systems QUALICOAT Class 1 - GSB Florida 1 - The use of Super Durable RIPOL Series 59L is recommended whenever higher colour and gloss retention is required. During exposure to sunlight, follow TDS curing instructions; **QSC:** QUALISTEELCOAT; **Thick.:** Thickness (coating thicknesses depend on shade and its covering capacity); **F1 QC1:** Florida 1 Qualicoat Class 1.

*Other colors are available on page 3 of this brochure.

CORROCARE PRIMER

High-performance protection with outstanding corrosion resistance

Zinc-free epoxy-based primer formulated for use in Double Layer systems where exceptional and long-lasting corrosion protection is required for steel and galvanized steel structures (HDG) exposed to the most severe environmental conditions. Anticorrosive protection up to category C5-H according to ISO 12944-6/2. Tested and certified according to QUALISTEELCOAT specifications for Double Layer systems.



SPECIAL PRIMERS

BASIC EPOXY PRIMER SOLUTIONS

Universal epoxy-based primer with excellent adhesion between layers

Code	Finish	Colour
22LG1B00220	Smooth matt	Grey ± 7004
22LG1701620	Smooth matt	Grey ± 7016
22LG1703520	Smooth matt	Grey ± 7035
22LN1900520	Smooth matt	Black ± 9005
22LS1101120*	Smooth matt	Ivory ± 1011
22LW1F41620	Smooth matt	White ± 9016

ANTIGASSING OGF PRIMERS

Zinc-free hybrid epoxy/polyester primer resistant to outgassing, developed for coating castings or galvanized parts

Code	Finish	Colour
18LG1G69880	Smooth satin	Grey ± 7038
18LG1H62580	Smooth satin	Grey ± 7035
18LG1H64380	Smooth satin	Grey ± 7016
18LN1H10980	Smooth satin	Black ± 9005
18LW1H58680	Smooth satin	White ± 9016

HIGH-BUILD EPOXY PRIMERS

Epoxy-based basecoat primers with superior coverage edge adhesion

Code	Finish	Colour
22LG1H62620	Smooth matt	Grey ± 7032
22LG1H70620	Smooth matt	Grey ± 7035

CONDUCTIVE PRIMER

Code	Finish	Colour
22LN1G61092	Smooth matt	Black



*Product certified according to Bundeswehr standards for military applications.

PRIMER 12LG1F26812

Specifically developed for coating aluminum structures and increasing protection against filiform corrosion. To be used with durable external topcoats RIPOL Series 5. It has excellent mechanical properties and can also be used as an anticorrosive primer for steel surfaces or as a finish for interior applications. Smooth matt finish, Grey $\pm$ RAL 7001.

PRIMERS FOR ALLOY WHEEL

A wide range of primers optimized to provide the best possible base for subsequent coatings. Designed to meet all industrial applications (vertical and horizontal lines) and ideal for diamond-cut treatments.



Fam	Code	Name	Finish	Gloss	Colour	Curing	Features
HEP	12LG1F26812	Grey Primer	Smooth	Matt	$\pm$ 7001	15-20@180°	
HEP	12LN1H73012	Black Primer	Smooth	Matt	$\pm$ 9004	15-20@180°	
HEP	18LN1G22612	Black Primer	Smooth	Semigloss	$\pm$ 9004	15-20@180°	HS
HEP	18LN1H33512	Black Primer	Smooth	Semigloss	$\pm$ 9004	15-20@180°	HS
HEP	19LG1G602A2	Grey Primer	Smooth	Glossy	$\pm$ 7040	15-20@180°	
HEP	19LG1H36012	Grey Primer	Smooth	Glossy	$\pm$ 7040	15-20@180°	HS
EPX	22LG1B00220	Grey Primer	Smooth	Matt	$\pm$ 7001	20@180°	

HEP: Hybrid PE/EP system; **EPX:** Pure Epoxy system; **HS:** Horizontal systems only.



ATMOSPHERIC CORROSION OF STEEL

Steel corrosion is a phenomenon that causes alteration of the metal surface due to chemical or electrochemical reactions that may develop under the exposure to severe weather, humidity, chemical products or other agents present in the environment such as air pollution, solar radiation or heavy rain. Corrosion may require particularly costly restoration procedures and, in extreme cases, lead to the complete replacement of the component. These considerations highlight the importance of choosing anticorrosive methods capable of ensuring long-lasting protection.

CORROSION PROTECTION - Classification for coating systems applied to steel in accordance with DIN EN ISO 12944-6/2

Cat.	Corrosion risk	Outdoor environments	Indoor environments	Resistance		Test regime 1	
				Class	Year	ISO-6270-1	ISO-9227
C1	Very Low	===	Heated buildings with clean atmospheres - offices, shops, schools, hotels	Low	2-7	===	===
				Medium	7-15	===	===
				High	15-25	===	===
				Very high	>25	===	===
C2	Low	Environments with low levels of pollution. Especially natural areas	Unheated buildings where condensation can occur - warehouses, sports facilities	Low	2-7	===	===
				Medium	7-15	===	===
				High	15-25	===	===
				Very high	>25	240	480
C3	Moderate	Urban/industrial environments, moderate sulfur dioxide pollution. Coastal areas with low salinity	Production facilities with high humidity and a certain amount of air pollution - food industries, laundries, breweries, dairies	Low	2-7	48	120
				Medium	7-15	120	240
				High	15-25	240	480
				Very high	>25	480	720
C4	Severe	Industrial areas and coastal areas with moderate salinity	Chemical plants, swimming pools, shipyards	Low	2-7	120	240
				Medium	7-15	240	480
				High	15-25	480	720
				Very high	>25	720	1440
C5	Very Severe	Industrial areas with high humidity and aggressive atmospheres, and coastal areas with high salinity	Buildings or areas with almost permanent condensation and high pollution	Low	2-7	240	480
				Medium	7-15	480	720
				High	15-25	720	1440
				Very high	>25	===	===

Cat.: Corrosion category; **ISO 6270-1:** Water condensation test; **ISO-9227:** Salt spray test.

ENVIRONMENTALLY FRIENDLY



RIPOL powder coatings are eco-friendly, do not contain any solvents and no Volatile Organic Compounds (VOCs) are released into the air. Any powder overspray can be recycled with minimal wastage, and disposal is easy and safe. In addition, all our products are heavy metal-free.





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Our experienced staff can provide customized solutions to the most difficult application problems



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